Federation Proceedings

VOLUME 12 *December 1953* NUMBER 4

THIRTY-EIGHTH ANNUAL MEETING
ATLANTIC CITY, NEW JERSEY
April 11-16, 1954

THE 1954 MEETING of the Federated Societies will be held in Atlantic City, April 11–16. Scientific sessions of the six constituent Societies will begin at 9:00 A.M. on Tuesday, April 13, and will continue through Friday afternoon, April 16. Scientific sessions will be held in Convention Hall. The motion picture session will be Monday evening, April 12, and the Joint Session, Tuesday evening, April 13; both will be held in the Ballroom at Convention Hall. Sunday and Monday, April 11 and 12, will be devoted to meetings of the Federation Board, the Society Councils, and other committees and special groups.

HEADQUARTERS HOTEL

The Ambassador will be headquarters for all six societies.

Information on hotel rates and reservation forms will be distributed to members by the Society Secretaries. Requests for additional forms may be addressed to Society Secretaries or the Federation Convention Office, 2101 Constitution Avenue, Washington 25, D. C.

PAPERS FOR THE PROGRAM

Abstracts of papers to be printed in FEDERATION PROCEEDINGS must be submitted in quadruplicate to the Secretary of the Society of membership and must reach him *not later than January 4, 1954*. The abstract must not exceed 275 words including title, authors' names, institutional connections, references and acknowledgments. Structural chemical formulae, figures and footnotes cannot be used. Tabular data are discouraged, but if used these must permit setting in a single column (2.7 inches), and each line of tables and headings must be counted as ten text words.

If reprints of abstracts are desired, the reprint order form distributed by Society Secretaries must be completed in full and attached to the original copy of each abstract submitted. Additional forms may be secured from the Society Secretaries or from the Federation Convention Office.

REGISTRATION INFORMATION

Registration desks will open Monday, April 12, at 9:00 A.M. in Convention Hall, and will remain open until 10:00 P.M. on that day. During the following days of the meeting registration desks will open at 8:00 A.M. and will remain open until 5:00 P.M. Members are urged to complete registration on Monday if possible. Members of the constituent Societies, guests, and other biologists and physicians who wish to attend the meetings may register. There will be separate registration desks for non-professional guests who do not wish to attend the scientific sessions. *The official badge issued at the registration desks must be worn to secure admission to the scientific sessions and other activities of the convention.*

Programs and abstracts will be on sale in the lobby of Convention Hall near the registration desks. Tickets for various special functions scheduled in the program will be on sale in the same area.

A message center will be located in the registration area to facilitate distribution of mail and exchange of personal communications.

EXHIBITS

Exhibits will be located on the Main Arena Floor at Convention Hall. An entirely new classification of exhibits will be open to individuals and small firms having inventions and apparatus they wish to display. These will be organized as table displays measuring 30″ x 60″ and will be offered at the lowest possible cost to encourage those who cannot take full-sized exhibit space.

Member and institutional exhibits will be interspersed among those of industrial firms. Members and non-member scientists who have material which is adaptable to display or may amplify the papers they will present are invited to make application to the Federation Secretary or through the Society Secretaries who will furnish information and application forms. Certain industrial firms have offered assistance, without obligation, to members in arranging and decorating their booths; assistance should be requested at the time application for display space is made.

Inspection periods will be as follows: Monday, April 12, 12:00 noon to 6:00 P.M.; Tuesday, Wednesday and Thursday, April 13–15, 8:45

A.M. to 5:30 P.M.; and Friday 8:45 A.M. to 3:30 P.M. There will be soft drink, cigarette and conference lounges for the convenience of visitors to the exhibits. An exhibits office will be located adjacent to the main exhibition floor.

PLACEMENT SERVICE

The office of the Placement Service will be located on the Main Arena Floor of Convention Hall, and will open at 8:00 A.M. Monday, April 12. Candidates for positions who wish to use the interview service and to register in advance should write to the Federation Placement Service, 2101 Constitution Avenue, Washington 25, D. C., for application forms, which must be returned not later than March 29, 1954. Candidates who have previously filed forms with the Service are requested to notify the office of their intention to use the interview service and to supply additional data not later than March 29. Complete application forms and curricula vitae of all candidates present at Atlantic City will be on file at the Placement Service office there. The last list of available candidates to be prepared before the annual meeting will be that of February 1954. To be included in this, candidates must file their completed application forms not later than February 1.

Employers who are annual subscribers to the Placement Service lists, or those who subscribe to the February 1954 list of candidates, are eligible to use the facilities of the Service at the meeting. An identification card will be issued to each subscriber, and any member of a department or faculty may use the department's or dean's subscription privilege for scheduling interviews, if properly identified. Subscribers who wish to have their privileges at the meeting utilized by anyone in their organization should send written authorization to the Federation Office in Washington not later than March 29. Only one card can be issued for each subscription.

Agencies seeking personnel should write to the Federation Placement Service for employer registration cards on which to describe vacancies and record their Atlantic City addresses. Cards should be returned to the Placement Service not later than March 29.

SPECIAL FUNCTIONS

As heretofore, the Federation Office will be glad to schedule breakfasts, luncheons, dinners and special meetings for any groups who may wish to arrange such functions. Any individuals or groups desiring such meetings scheduled should make their plans early and inform the Federation Convention Office of their requirements not later than January 15, 1954. Specifications should include the following information: the attendance to be expected, time desired (with alternatives), and a note of any conflicts with other groups which should be avoided. Lanterns, screens and operators for discussion sessions following a meal can be furnished, if notice of such requirements is given in advance and the expenses are borne by the discussion group. Information regarding meal and meeting facilities is available in the Federation Convention Office.

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY

FEDERATION BOARD, 1953–1954

H. B. HAAG, C. C. PFEIFFER, K. K. CHEN, *American Society for Pharmacology and Experimental Therapeutics*
D. M. ANGEVINE, C. C. ERICKSON, S. C. MADDEN, *American Society for Experimental Pathology*
C. A. ELVEHJEM, J. M. ORTEN, P. L. DAY, *American Institute of Nutrition*
T. P. MAGILL, J. Y. SUGG, J. F. ENDERS, *American Association of Immunologists*
E. F. ADOLPH, H. E. ESSEX, E. M. LAND'S, *American Physiological Society*
D. W. WILSON, PHILIP HANDLER, V. DU VIGNEAUD, *American Society of Biological Chemists*
K. K. CHEN, *Chairman*, Lilly Research Laboratories, Indianapolis, Indiana
M. O. LEE, *Federation Secretary*, 2101 Constitution Avenue, Washington, D. C.

COMMITTEES

Secretaries Committee—C. C. PFEIFFER, Pharmacology, *Chairman;* C. C. ERICKSON, Pathology; J. M. ORTEN, Nutrition; J. Y. SUGG, Immunology; H. E. ESSEX, Physiology; PHILIP HANDLER, Biochemistry.

Federation Finance Committee—K. K. CHEN, *Chairman;* VINCENT DU VIGNEAUD, W. O. FENN, J. Y. SUGG, D. M. ANGEVINE.

Federation Members, Joint Finance Committee (with American Physiological Society)—K. K. CHEN, E. H. STOTZ.

Public Relations Committee—J. O. HUTCHENS, *Chairman;* C. C. PFEIFFER, R. J. WINZLER, R. W. WISSLER.

Federation Advisory Committee to the National Society for Medical Research—F. S. ROBSCHEIT-ROBBINS, *Chairman;* F. C. MANN (1954), R. J. WINZLER (1954), H. M. ROSE (1955), J. A. WELLS (1956), C. M. MCCAY (1956).

Exhibitors Advisory Committee to the Federation—PAUL DE HAEN (1955), *Chairman;* H. L. ETTMAN, R. R. BUNTAINE, W. H. SEALE, S. K. HERLITZ.

REPRESENTATIVES TO OTHER ORGANIZATIONS

To the Council of the American Association for the Advancement of Science—E. M. K. GEILING (1954), W. PARKER ANSLOW, JR., (1955).

To the American Documentation Institute—M. O. LEE.

To the Scientific Manpower Commission—J. H. ROE (1954), M. O. LEE (1956).

To the Future Scientists of America Foundation—D. W. WILSON (1954), M. O. LEE (1955).

FORMER EXECUTIVE COMMITTEES

Philadelphia, Dec. 28–31, 1913

S. J. MELTZER, *Chairman* AND A. J. CARLSON, *Secretary*, The Physiological Society. A. B. MACALLUM and P. A. SHAFFER, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society.

St. Louis, Dec. 27–30, 1914

G. LUSK, *Chairman*, and P. A. SHAFFER, *Secretary*, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society. R. M. PEARCE and G. H. WHIPPLE, The Pathological Society. W. B. CANNON and A. J. CARLSON, The Physiological Society.

Boston, Dec. 26–29, 1915

TORALD SOLLMANN, *Chairman*, and JOHN AUER, *Secretary*, The Pharmacological Society. THEOBALD SMITH and PEYTON ROUS, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and P. A. SHAFFER, The Biochemical Society.

New York, Dec. 27–30, 1916

SIMON FLEXNER, *Chairman*, and PEYTON ROUS, *Secretary*, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and J. AUER, The Pharmacological Society.

Minneapolis-Rochester, Dec. 27–29, 1917

FREDERIC S. LEE, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. CARL L. ALSBERG, and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and L. G. ROWNTREE, The Pharmacological Society. LUD-

VIG HEKTOEN and HOWARD T. KARSNER, The Pathological Society.

Baltimore, April 24–26, 1918

CARL L. ALSBERG, *Chairman*, and STANLEY R. BENEDICT, *Secretary*, The Biochemical Society. REID HUNT and E. D. BROWN, The Pharmacological Society. H. GIDEON WELLS and HOWARD T. KARSNER, The Pathological Society. FREDERIC S. LEE and CHARLES W. GREENE, The Physiological Society.

Cincinnati, Dec. 29–31, 1919

A. S. LOEVENHART, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. W. G. MACCALLUM and HOWARD T. KARSNER, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society.

Chicago, Dec. 28–30, 1920

WILLIAM H. PARK, *Chairman* and HOWARD T. KARSNER, *Secretary*, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society. A. S. LOEVENHART and EDGAR D. BROWN, The Pharmacological Society.

New Haven, Dec. 28–30, 1921

J. J. MACLEOD, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. D. D. VAN SLYKE and VICTOR C. MEYERS, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. F. G. NOVY and WADE H. BROWN, The Pathological Society.

Toronto, Dec. 27–29, 1922

D. D. VAN SLYKE, *Chairman*, and VICTOR C. MYERS, *Secretary*, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. HOWARD T. KARSNER and WADE H. BROWN, The Pathological Society. J. J. R. MACLEOD and CHARLES W. GREENE, The Physiological Society.

St. Louis, Dec. 27–29, 1923

C. W. EDMUNDS, *Chairman*, and EDGAR D. BROWN, *Secretary*, The Pharmacological Society. E. L. OPIE and WADE H. BROWN, The Pathological Society. A. J. CARLSON and CHARLES W. GREENE, The Physiological Society. PHILIP A. SHAFFER and VICTOR C. MYERS, The Biochemical Society.

Washington, Dec. 29–31, 1924

ALFRED S. WARTHIN, *Chairman*, and E. B. KRUMBHAAR, *Secretary*, The Pathological Society. A. J. CARLSON and WALTER J. MEEK, The Physiological Society. P. A. SHAFFER and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society.

Cleveland, Dec. 28–30, 1925

A. J. CARLSON, *Chairman*, and WALTER J. MEEK, *Secretary*, The Physiological Society. H. C. SHERMAN and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. GEORGE H. WHIPPLE and E. B. KRUMBHAAR, The Pathological Society.

Rochester, N. Y., April 14–16, 1927

E. C. KENDALL, *Chairman*, and F. C. KOCH, *Secretary*, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. W. H. BROWN and E. B. KRUMBHAAR, The Pathological Society. J. ERLANGER and W. J. MEEK, The Physiological Society.

Ann Arbor, April 12–14, 1928

CARL VOEGTLIN, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. DAVID MARINE and CARL V. WELLER, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society.

Boston, Aug. 19–24, 1929

(The XIIIth International Physiological Congress)

EDWARD B. KRUMBHAAR, *Chairman*, and CARL V. WELLER, *Secretary*, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society.

Chicago, March 26–29, 1930

WALTER J. MEEK, *Chairman*, and ALFRED C. REDFIELD, *Secretary*, The Physiological Society. W. R. BLOOR and HOWARD B. LEWIS, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society. WILLIAM F. PETERSEN and CARL V. WELLER, The Pathological Society.

Montreal, April 8–11, 1931

W. R. BLOOR, *Chairman*, and H. B. LEWIS, *Secretary*, The Biochemical Society. GEORGE B. WALLACE and E. D. BROWN, The Pharmacological

Society. FREDERICK L. GATES and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO S. LUCKHARDT, The Physiological Society.

Philadelphia, April 27–30, 1932

GEORGE B. WALLACE, *Chairman*, and V. E. HENDERSON, *Secretary*, The Pharmacological Society. SAMUEL R. HAYTHORN and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO B. LUCKHARDT, The Physiological Society. H. C. BRADLEY and HOWARD B. LEWIS, The Biochemical Society.

Cincinnati, April 10–12, 1933

PEYTON ROUS, *Chairman*, and C. PHILLIP MILLER, *Secretary*, The Pathological Society. ARNO B. LUCKHARDT and FRANK C. MANN, The Physiological Society. H. C. BRADLEY and HOWARD B. LEWIS, The Biochemical Society. WM. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society.

New York, March 28–31, 1934

ARNO B. LUCKHARDT, *Chairman*, FRANK C. MANN, *Secretary*, and ALEXANDER FORBES, *Treasurer*, The Physiological Society. W. M. CLARK and H. A. MATTILL, The Biochemical Society. W. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society. CARL V. WELLER and C. PHILLIP MILLER, The Pathological Society.

Detroit, April 10–13, 1935

W. M. CLARK, *Chairman*, H. A. MATTILL, *Secretary*, and C. H. FISKE, *Treasurer*, The Biochemical Society. CHARLES W. GREENE and FRANK C. MANN, The Physiological Society. R. A. HATCHER and E. M. K. GEILING, The Pharmacological Society. S. BURT WOLBACH and SHIELDS WARREN, The Pathological Society.

Washington, March 25–28, 1936

V. E. HENDERSON, *Chairman*, E. M. K. GEILING, *Secretary*, and C. M. GRUBER, *Treasurer*, The Pharmacological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. H. B. LEWIS and H. A. MATTILL, The Biochemical Society. OSKAR KLOTZ and SHIELDS WARREN, The Pathological Society.

Memphis, April 21–24, 1937

ALPHONSE R. DOCHEZ, *Chairman*, and SHIELDS WARREN, The Pathological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. HOWARD B. LEWIS and H. A. MATTILL, The Biochemical Society. V. E. HENDERSON and E. M. K. GEILING, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Baltimore, March 30–April 2, 1938

WILLIAM T. PORTER, *Honorary President;* WALTER E. GARREY, *Chairman*, and ANDREW C. IVY, The Physiological Society. GLENN E. CULLEN and H. A. MATTILL, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. D. R. HOOKER, *Secretary*.

Toronto, April 26–29, 1939

GLENN E. CULLEN, *Chairman*, and CHARLES G. KING, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. WALTER E. GARREY and ANDREW C. IVY, The Physiological Society. D. R. HOOKER, *Secretary*.

New Orleans, March 13–16, 1940

E. M. K. GEILING, *Chairman*, and G. PHILIP GRABFIELD, The Pharmacological Society. ERNEST W. GOODPASTURE and PAUL R. CANNON, The Pathological Society. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. D. R. HOOKER, *Secretary*.

Chicago, April 15–19, 1941

SHIELDS WARREN, *Chairman*, and H. P. SMITH, The Pathological Society. THORNE M. CARPENTER and L. A. MAYNARD, The Institute of Nutrition. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. E. M. K. GEILING and G. PHILIP GRABFIELD, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Boston, March 31–April 4, 1942

ALBERT G. HOGAN, *Chairman*, and ARTHUR H. SMITH, The Institute of Nutrition. PHILIP BARD and CARL J. WIGGERS, The Physiological Society. RUDOLPH J. ANDERSON and ARNOLD K. BALLS, The Biochemical Society. E. M. K. GEILING and R. N. BIETER, The Pharmacological Society. JESSE L. BOLLMAN and H. P. SMITH, The Pathological Society. SHIELDS WARREN, *Ex-Chairman*. D. R. HOOKER, *Secretary*.

1943, 1944, 1945: The meetings scheduled for Cleveland were cancelled because of war conditions

PHILIP BARD, *Chairman*, and WALLACE O. FENN, The Physiological Society. E. A. DOISY and ARNOLD K. BALLS, The Biochemical Society. E. K. MARSHALL, JR. and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and

H. P. Smith, The Pathological Society. Leonard A. Maynard and Arthur H. Smith, The Institute of Nutrition. Jacques J. Bronfenbrenner and Arthur F. Coca, The Association of Immunologists. D. R. Hooker, *Secretary*.

Atlantic City, March 11–15, 1946

Philip Bard, *Chairman*; Wallace O. Fenn, The Physiological Society. A. Baird Hastings and Arnold K. Balls, The Biochemical Society. Erwin E. Nelson and Raymond N. Bieter, The Pharmacological Society. Balduin Lucké and H. P. Smith, The Pathological Society. William C. Rose and H. E. Carter, The Institute of Nutrition. Jacques J. Bronfenbrenner and Arthur F. Coca, The Association of Immunologists. D. R. Hooker, *Secretary*.

Chicago, May 18–22, 1947

A. Baird Hastings, *Chairman*, and Otto A. Bessey, The Biochemical Society. Maurice H. Seevers and Harvey B. Haag, The Pharmacological Society. Paul R. Cannon and Frieda S. Robscheit-Robbins, The Pathological Society. Arthur H. Smith and H. E. Carter, The Institute of Nutrition. Michael Heidelberger and Arthur F. Coca, The Association of Immunologists. Wallace O. Fenn and Maurice B. Visscher, The Physiological Society. William H. Chambers, *Secretary*.

Atlantic City, March 15–19, 1948

Maurice H. Seevers, *Chairman*, and Harvey B. Haag, The Pharmacological Society. Douglas H. Sprunt and Frieda S. Robscheit-Robbins, The Pathological Society. R. M. Bethke and H. E. Carter, The Institute of Nutrition. Lloyd D. Felton and Arthur F. Coca, The Association of Immunologists. Wallace O. Fenn and Maurice B. Visscher, The Physiological Society. Hans T. Clarke and Otto A. Bessey, The Biochemical Society. William H. Chambers, *Secretary*.

Detroit, April 18–22, 1949

H. P. Smith, *Chairman*, and Frieda S. Robscheit-Robbins, The Pathological Society. E. M. Nelson and J. H. Roe, The Institute of Nutrition. Michael Heidelberger and Jules Freund, The Association of Immunologists. Maurice B. Visscher and D. B. Dill, The Physiological Society. Hans T. Clarke and Otto A. Bessey, The Biochemical Society. Carl A. Dragstedt and Harvey B. Haag, The Pharmacological Society. M. O. Lee, *Federation Secretary*.

Atlantic City, April 17–21, 1950

C. G. King, *Chairman*, and J. H. Roe, The Institute of Nutrition. Thomas Francis, Jr., and Jules Freund, The Association of Immunologists. Carl J. Wiggers and D. B. Dill, The Physiology Society. Carl F. Cori and Richard W. Jackson, The Biochemistry Society. Carl F. Schmidt and H. B. Haag, The Pharmacology Society. John G. Kidd and Sidney C. Madden, The Pathology Society. M. O. Lee, *Federation Secretary*.

Cleveland, April 29–May 3, 1951

Geoffrey Edsall, *Chairman*, and Jules Freund, The Association of Immunologists. D. B. Dill and R. W. Gerard, The Physiology Society. H. B. Vickery and E. H. Stotz, The Biochemistry Society. Carl F. Schmidt and H. B. Haag, The Pharmacology Society. James F. Rinehart and Sidney C. Madden, The Pathology Society. W. H. Griffith and J. H. Roe, The Institute of Nutrition. M. O. Lee, *Federation Secretary*.

New York City, April 14–18, 1952

D. B. Dill, *Chairman*, H. E. Essex, R. W. Gerard, The Physiology Society. Vincent du Vigneaud, E. H. Stotz, H. B. Vickery, The Biochemistry Society. McKeen Cattell, C. C. Pfeiffer, Carl F. Schmidt, The Pharmacology Society. F. S. Robscheit-Robbins, R. L. Holman, J. F. Rinehart, The Pathology Society. C. M. McCay, James M. Orten, W. H. Griffith, The Institute of Nutrition. Colin M. MacLeod, John Y. Sugg, Geoffrey Edsall, The Association of Immunologists. M. O. Lee, *Federation Secretary*.

FORMER FEDERATION BOARDS

Chicago, April 6–10, 1953

Vincent du Vigneaud, *Chairman;* H. A. Mattill, D. W. Wilson, E. H. Stotz, The Biochemistry Society. K. K. Chen, C. C. Pfeiffer, McKeen Cattell, The Pharmacology Society. S. C. Madden, R. L. Holman, F. S. Robscheit-Robbins, The Pathology Society. P. L. Day, J. M. Orten, C. M. McCay, The Institute of Nutrition. J. F. Enders, John Y. Sugg, C. M. MacLeod, The Association of Immunologists. E. M. Landis, E. F. Adolph, R. W. Gerard, The Physiology Society. M. O. Lee, *Federation Secretary*.

FEDERATION CONSTITUTION AND BYLAWS

Adopted at the New York City meeting, April 17, 1952

CONSTITUTION

Article I. *Name*

The name of this organization is the Federation of American Societies for Experimental Biology.

Article II. *Purpose*

The purposes of the Federation are: to bring together investigators in biological and medical sciences represented by the member Societies; to disseminate information on the results of biological research through publications and scientific meetings; and to serve in other capacities in which the member Societies can function more efficiently as a group than as individual units.

Article III. *Membership*

Section 1. The constituent members of the Federation are, in order of seniority: The American Physiological Society; American Society of Biological Chemists, Inc.; American Society for Pharmacology and Experimental Therapeutics, Inc.; The American Society for Experimental Pathology; American Institute of Nutrition; The American Association of Immunologists.

Section 2. Other societies in the field of biological science may apply for membership, and may be admitted by unanimous consent of the Societies which are members at the time of application.

Section 3. Any constituent Society may withdraw from the Federation one year following written notification to the Federation Board of its intention.

Article IV. *Management*

The management of the Federation shall be vested in a Federation Board, on which each of the constituent Societies shall have equal membership. The Chairman of the Federation Board shall be furnished for a one-year term by each Society in its turn as determined by seniority in the Federation and shall be the immediate Past-President of that Society.

Article V. *Amendments*

Section 1. *Amendments.* Amendments to this Constitution may be proposed by any of the constituent Societies. If approved by a two-thirds majority of the Federation Board, the proposal shall then be referred to the constituent Societies. The amendment shall be adopted when approved by all of the constituent Societies.

Section 2. *Bylaws.* Bylaws may be adopted or amended by the Federation Board at any meeting of the Board by a vote in which at least two of the representatives from each member Society must concur.

BYLAWS

Article I. *The Federation Board*

Section 1. The Federation Board shall consist of the President, the Secretary and the immediate Past-President of each of the constituent Societies. In the absence of a member of the Board, his place may be filled by a substitute designated by the appropriate Society. In the absence of the Chairman, the President of the senior Society for that year shall serve as chairman.

Section 2. The Federation Board shall consider measures of advantage to the Federation. Any constituent Society may refer such measures to the Federation Board for consideration.

Section 3. The Federation Board may take such action, or may authorize the Chairman or the Federation Secretary to take such action, as is approved by at least two representatives of each Society. The actions of the Federation Board shall be reported to the annual business meetings of the member Societies.

Section 4. The Federation Board shall appoint annually a Secretary-Treasurer, to be known as the Federation Secretary, who may present matters to the Federation Board for decision but who shall not be entitled to vote.

Section 5. The Federation Board shall control all monies of the Federation, determine the annual Federation assessment per member of the constituent Societies, set the suscription rates for Federation publications and the fees of the Placement Service, and appropriate monies for use of its authorized committees and the Federation Secretary. The assessment shall be applied to each Society as of July 1 of each year and shall be due the Federation on that date.

Section 6. The Federation Board shall determine times and places of annual meetings of the Federation upon recommendations of the Federation Secretary.

Article II. *Federation Secretary*

The Federation Secretary shall act as secretary to the Federation Board and be responsible for all

Federation records; he shall act as treasurer for the Federation and submit audited financial statements to the Federation Board at the annual meeting; he shall be responsible for making the arrangements for the annual meeting of the Federation; he shall act as managing editor of the publications of the Federation; he shall supervise the Federation's Placement Service and make an annual report on its activity to the Federation Board; and he shall perform such other duties as prescribed by the Federation Board and which do not conflict with the Constitutions and Bylaws of the constituent Societies.

Article III. *Committees and Representatives*

Section 1. The Federation Board shall establish such committees and designate such representatives as desired and receive their reports. The Chairman of the Federation Board shall appoint, with the advice of the Board, the individual committee members and representatives, unless otherwise specified by the Board.

Section 2. A Public Information Committee shall be a standing committee of the Federation.

Section 3. A Secretaries Committee, composed of the Secretaries of the constituent Societies, shall be a standing committee of the Federation. The Chairman of this Committee shall be the Secretary of the senior Society for the year. This Committee shall be responsible for arranging the program of the annual meeting and for setting the registration fee for this meeting, shall act as an editorial board for Federation publications and shall perform such other functions in connection with the annual meeting as prescribed by the Federation Board.

Section 4. The Secretaries Committee shall meet during the winter, and a meeting of the entire Federation Board may be associated with this meeting.

Article IV. *Meetings*

Section 1. The Federation shall hold an annual meeting for presentation of papers at the scientific sessions of the constituent Societies or at general sessions of the Federation and for transaction of business.

Section 2. Abstracts of papers to be read at an annual meeting of the Federation must be submitted to the Secretary of the Society of which the proposer of the paper is a member, and such proposer must be either an author of the paper or introduce the author(s). No person may present orally more than one paper at the Federation meeting except at the invitation of the Secretary of an individual Society. The oral presentation of any paper shall be by the first named author, except by permission of the Secretary of the Society concerned.

Section 3. Each Society shall have the responsibility for selecting and arranging its scientific program and for setting its specific regulations, provided these are not in conflict with the general regulations under Section 2. The authors of the paper may request its transfer to the program of another Society, but this may be done only with the consent of the Secretaries of the two Societies concerned. Secretaries on their own initiative may transfer papers from the program of one Society to that of another. Transfers shall be indicated in the program.

Section 4. The abstracts of papers read at scientific sessions of all constituent Societies at the annual meeting shall be published in the Federation Proceedings. Rules regarding the form and length of the abstracts shall be set by the Secretaries Committee and shall be circulated at least six weeks prior to the date set for receipt of the abstracts.

Article V. *Publications*

The official publications of the Federation shall be Federation Proceedings and such other publications as the Federation Board may authorize. Federation Proceedings shall be owned by the Federation and published under the supervision of the Managing Editor and the Secretaries Committee. Normally, a March issue, in two parts, shall contain the abstracts of papers and the program for the annual meeting. A December issue shall contain the annual list of the members of the Societies and other pertinent information. Two other issues shall contain papers from the Joint Session, symposia and such other material as may be selected by the Secretaries Committee.

Article VI. *Placement Service*

The Federation shall maintain a Placement Service the function of which shall be to assist in the placing of professional personnel in suitable positions.

PLACEMENT SERVICE

The Federation maintains a service to act as a medium of communication between persons seeking positions for teaching or research and institutions that wish to fill vacancies in these sciences.

The Service does not undertake to recommend or to pass judgment upon applicants. It aims merely to serve as a clearing-house for such information as above stated and to bring into touch with one another candidates for positions and employers. It publishes quarterly lists of applicants in February, May, August and November, semiannual lists of available positions in March and September and a list of fellowships and assistantships in October.

Individuals, whether members of the Federation or not, universities, other institutions and organizations desiring to avail themselves of the Service may receive such information as is available.

By action of the Executive Committee in 1951 the following charges were authorized:

Annual applicant registration fee...	$ 3
Annual subscription to all lists of the Service.....	$10
Single copy of fellowship list.....	$ 2
Single copy of all other lists.....	$ 5

A single copy of the fellowship list will be sent without cost to any member of a constituent Society upon written request.

To be eligible to use the arrangements for interviews at the annual meeting an employer must be an annual subscriber or a subscriber to the then current February list of applicants.

All communications should be addressed to: Federation Placement Service, 2101 Constitution Ave., Washington 25, D. C.

THE AMERICAN PHYSIOLOGICAL SOCIETY

Founded December 30, 1887; Incorporated June 2, 1923

OFFICERS, 1953–1954

President—E. F. ADOLPH, University of Rochester, Rochester, N. Y.

President-Elect (Secretary-Treasurer)—H. E. ESSEX, Mayo Foundation, Institute of Experimental Medicine, Rochester, Minn.

Past-President—E. M. LANDIS, Harvard Medical School, Boston, Mass.

Council—E. F. ADOLPH, H. E. ESSEX, E. M. LANDIS, L. N. KATZ (1954), A. C. BURTON (1955), F. A. HITCHCOCK (1956), H. W. DAVENPORT (1957).

Executive Secretary—M. O. LEE, 2101 Constitution Ave., Washington, D. C.

Historian—W. J. MEEK.

STANDING COMMITTEES

Joint Finance Committee (with Federation)—W. O. FENN, *Chairman*; E. F. ADOLPH.

Use and Care of Animals—H. E. ESSEX, *Chairman*; H. W. DAVENPORT (1957), JOHN HALDI (1955), W. F. HAMILTON (1954).

Membership—L. N. KATZ, *Chairman;* E. C. BLACK (1954), O. E. REYNOLDS (1954), W. S. REHM (1955), C. McC. BROOKS (1955).

Educational Matters—E. F. ADOLPH (1957), *Chairman;* W. R. AMBERSON (1954), C. L. PROSSER (1955), J. H. COMROE, JR. (1956).

SPECIAL COMMITTEES

Placement of Senior Physiologists—D. B. DILL.

Porter Fellowship—H. W. DAVENPORT, *Chairman*; T. G. BERNTHAL, F. J. M. SICHEL.

Program Advisory Committee—A. B. HERTZMAN, *Chairman*; W. S. FOWLER, ALEXANDER HOLLAENDER, J. O. HUTCHENS, T. C. RUCH, L. M. N. BACH.

Survey of Physiological Science—R. W. GERARD, *Chairman*, W. O. FENN, *Co-Chairman;* A. C. BURTON, JOHN FIELD II, D. R. GODDARD, R. S. MORISON, MARION PARKER, H. B. STEINBACH, M. L. TAINTER, M. B. VISSCHER, P. W. WILSON; E. F. ADOLPH, M. O. LEE, *Ex-Officio*.

Committee on Society Headquarters—W. O. FENN, *Chairman;* W. F. HAMILTON, M. B. VISSCHER, J. P. QUIGLEY, D. B. DILL, H. E. ESSEX.

Committee on Matters Relating to Loyalty, Clearance and Academic Freedom—E. M. LANDIS, *Chairman;* R. W. GERARD, D. B. DILL, H. W. DAVENPORT.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—DAVID RAPPORT (1955), F. A. HITCHCOCK (1955).

American Documentation Institute—WILLIAMINA A. HIMWICH (1955).

American Institute of Biological Sciences—W. O. FENN (1956).

Council for Coordination of International Congresses—M. B. VISSCHER.

Council of International Organizations in Medical Sciences—M. B. VISSCHER.

Federation Advisory Committee to National Society for Medical Research—F. C. MANN (1954).

International Union of Physiological Sciences—M. B. VISSCHER (1958), *Chairman;* E. F. ADOLPH (1954), F. O. SCHMITT (1955), C. F. SCHMIDT (1955), C. H. BEST (1958).

National Research Council—D. B. DILL, Division of Biology and Agriculture (1955); R. W. GERARD, Division of Medical Sciences (1955).

Editorial Boards

Board of Publication Trustees—W. O. FENN (1955), *Chairman*; W. F. HAMILTON (1954), M. B. VISSCHER (1956).

Managing Editor—M. O. LEE.

American Journal of Physiology and Journal of Applied Physiology—E. F. ADOLPH (1954), H. A. BLAIR (1956), A. C. BURTON (1954), R. G. DAGGS (1953), D. B. DILL (1955), H. J. DEUEL, JR. (1955), H. E. ESSEX (1955), L. B. FLEXNER (1955), A. P. GAGGE (1956), C. L. GEMMILL (1955), A. GILMAN (1956), A. GRAYBIEL (1956), FRANCES HELLEBRANDT (1954), D. J. INGLE (1956), L. N. KATZ (1954), E. M. LANDIS (1954), D. P. C. LLOYD (1956), HERMANN RAHN (1956), T. C. RUCH (1955), E. SIMONSON (1954), H. B. STEINBACH (1955), A. H. STEINHAUS (1955), J. E. THOMAS (1954), L. M. TOCANTINS (1954).

Physiological Reviews—H. J. CURTIS (1956), *Chairman;* W. H. CHAMBERS (1954), B. CHANCE (1954), A. F. COURNAND (1956), JOHN C. ECCLES (1955), GEORG KAHLSON (1954), S. C. MADDEN (1954), H. W. MAGOUN (1954), R. H. S. THOMPSON (1955), M. B. VISSCHER (1954), H. L. WHITE (1955). *Appointees of the Society of General*

Physiologists: FOLKE SKOOG (1955), F. A. BROWN, JR. (1954).

Annual Review of Physiology—J. P. BAUMBERGER (1954), JOHN FIELD, II (1954), W. F. HAMILTON (1954), M. B. VISSCHER (1954), J. P. QUIGLEY (1955).

PAST OFFICERS

Presidents—**1887** S. WIER MITCHELL. **1888** H. P. BOWDITCH. **1889–1890** S. WEIR MITCHELL. **1891–1895** H. P. BOWDITCH. **1896–1904** R. H. CHITTENDEN. **1905–1910** W. H. HOWELL. **1911–1913** S. J. MELTZER. **1914–1916** W. B. CANNON. **1917–1918** F. S. LEE. **1919–1920** W. P. LOMBARD. **1921–1922** J. J. R. MACLEOD. **1923–1925** A. J. CARLSON. **1926–1928** J. ERLANGER. **1929–1931** W. J. MEEK. **1932–1933** A. B. LUCKHARDT. **1934** CHARLES W. GREENE. **1935–1936** F. C. MANN. **1937–1938** W. E. GARREY. **1938** W. T. PORTER, *Honorary President.* **1939–1940** A. C. IVY. **1941–1945** P. BARD. **1946–1947** W. O. FENN. **1948** M. B. VISSCHER. **1949** C. J. WIGGERS. **1950** H. C. BAZETT (April to July); D. B. DILL. **1951** R. W. GERARD. **1952** E. M. LANDIS.

Secretaries—**1887–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1907** L. B. MENDEL. **1908–1909** R. HUNT. **1910–1914** A. J. CARLSON. **1915–1923** C. W. GREENE. **1924–1928** W. J. MEEK. **1929** A. C. REDFIELD. **1930–31** A. B. LUCKHARDT. **1932–1934** F. C. MANN. **1935–1938** A. C. IVY. **1939–1940** PHILIP BARD. **1940** C. J. WIGGERS. **1942–1945** W. O. FENN. **1946–1947** M. B. VISSCHER.

Treasurers—**1888–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1912** W. B. CANNON. **1913–1923** J. ERLANGER. **1924–1925** C. K. DRINKER. **1926–1935** ALEXANDER FORBES. **1936–1939** W. O. FENN. **1940** C. J. WIGGERS. **1941–1945** HALLOWELL DAVIS. **1946–1947** D. B. DILL.

Executive Secretary—**1948–** M. O. LEE.

CONSTITUTION AND BYLAWS

Adopted at the 1953 Spring Meeting

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is THE AMERICAN PHYSIOLOGICAL SOCIETY.

ARTICLE II. *Purpose*

The purpose of the Society is to promote the increase of physiological knowledge and its utilization.

BYLAWS

ARTICLE I. *Membership*

SECTION 1. The Society shall consist of members and honorary members.

SECTION 2. *Members.* Any person who has conducted and published meritorious original research in physiology and who is a resident of North America shall be eligible for proposal to membership in the Society.

SECTION 3. *Honorary Members.* Distinguished scientists of any country who have contributed to the advance of physiology shall be eligible for proposal as honorary members of the Society.

ARTICLE II. *Officers*

SECTION 1. The management of the Society shall be vested in a Council consisting of the President, the President-Elect, the Past-President for the previous year, and four other members. The terms of the President and of the President-Elect shall be one year. The terms of the four additional Councilors shall be four years each and they shall not be eligible for immediate reelection except those who have served for two years or less in filling interim vacancies. A person may serve only one term as President, except that if the President-Elect becomes President after September 30 he shall continue as President for the year beginning the next July 1st.

SECTION 2. Nomination and election of a President-Elect and Councilor(s) shall be by ballot at the Spring meeting of the Society. They shall assume office on July 1 following their election.

SECTION 3. The President-Elect shall serve as Vice-President and Secretary. Should he have to function as President prematurely, the Council shall select from among its own members a Secretary.

SECTION 4. The Council shall be empowered to appoint and compensate an Executive Secretary-Treasurer who shall assist it in carrying on the functions of the Society, including the receipt and disbursement of funds under the direction of the Council.

SECTION 5. The Council may fill any interim vacancies in its membership or vacancies on any Board or Committee of the Society, unless otherwise provided.

ARTICLE III. *Dues*

SECTION 1. The annual assessment on members shall be determined by the Council and shall be due in advance on July 1.

SECTION 2. A member whose dues are two years in arrears shall cease to be a member of the Society, unless after payment of his dues in arrears and application to the Council, he shall be reinstated at the next Spring meeting by special vote of the Council. It shall be the duty of the Secretary to notify the delinquent of his right to request reinstatement.

SECTION 3. A member who has retired from employment because of illness or age may, upon application to the Council, be relieved from the payment of the annual member assessment.

Article IV. *Meetings*

Section 1. A meeting of the Society for transacting business, electing officers and members, presenting communcations, and related activities, shall be held in the Spring of each year, with other member Societies of the Federation of American Societies for Experimental Biology, except that under exceptional circumstances the Council may cancel such a meeting.

Section 2. A Fall meeting of the Society shall be held at a time and place determined by the Council, for presenting communications and for transacting business except the election of officers and members.

Section 3. Special meetings of the Society or of the Council may be held at such times and places as the Council may determine.

Section 4. Regional meetings of the Society, for the purpose of presenting scientific communications, may be authorized by the Council.

Article V. *Publications*

Section 1. The official organs of the Society shall be the *American Journal of Physiology*, the *Journal of Applied Physiology*, *Physiological Reviews* and such other publications as the Society may own.

Section 2. A Board of Publication Trustees, composed of three members of the Society and appointed by the Council, shall be vested with the full power of the Society to control and manage, both editorially and financially, all of the publications of the Society; to appoint editorial boards; to appoint and compensate a Managing Editor; and to control all publication funds, none of which, however, may be diverted from support of the publications of the Society except by consent of the Council. The term of each member of the Board shall be three years; a member may not serve more than two consecutive terms. The Council shall designate the Chairman of the Board, and shall receive an annual report on the finances, publications and policies. A summary of this report shall be presented to the Society at the Spring meeting.

The Chairman of the Board of Publication Trustees shall be a member ex-officio of the Council but shall have no vote.

Article VI. *Committees and Representatives*

The Council may appoint such special and standing committees as it deems necessary or that are voted by the Society.

The Council may name members of the Society as representatives to other organizations whenever it deems such action desirable.

Article VII. *Standing Rules*

1. *Election to Membership.* Two members of the Society must join in proposing a person for membership, in writing and with a statement of his qualifications. The Council may, from the persons so proposed, nominate candidates for election to membership. Nominations shall be presented at a Fall meeting of the Society; a two-thirds majority vote of the members present at the succeeding Spring meeting shall be necessary for election.

If a Spring or Fall meeting of the Society is not held, the procedures of nomination and/or election of new members may be effected by mail.

The names of the candidates nominated by the Council for membership and statements of their qualifications signed by their proposers shall be available for inspection by members during the Society meetings at which their election is considered.

2. *Election to Honorary Membership.* The proposal of an honorary member shall be made by two members of the Society to the Council in writing. The Council may, from the candidates so proposed, make nominations to the Society at a Spring meeting. A two-thirds majority vote of the members present shall be necessary for election.

Honorary members shall have the privilege of attending business sessions of the Society but shall have no vote. They shall pay no membership fees.

3. *Presentation of Papers.* At a Spring meeting of the Society a member or honorary member may present orally or by title, be co-author of, or introduce not more than one scientific paper on the program, except upon invitation of the Council. At a Fall meeting a member or honorary member may present orally not more than one paper, except upon invitation of the Council.

Upon invitation by the Council, a member may contribute papers to specially designated sessions of the Society without forfeit of his privilege of presenting a regular scientific communication.

4. There shall be a Committee on Membership appointed by and advisory to the Council.

5. There shall be a Program Advisory Committee appointed by the Council.

Article VIII. *General*

Section 1. *Amendments.* These Bylaws, except Article VII, may be amended at any Spring meeting of the Society by a three-fourths majority vote of the members present.

The Standing Rules of Article VII may be amended by a majority vote of the members present at either a Spring or Fall meeting of the Society.

Section 2. *Quorum.* At all business meetings of

the Society fifty members shall constitute a quorum.

SECTION 3. *Parliamentary Authority.* The rules contained in *Roberts Rules of Order* shall govern the conduct of the business meetings of the Society in all cases to which they are applicable and in which they are not inconsistent with the Bylaws or special rules of order of the Society.

AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS

Founded December 6, 1906; Incorporated September 12, 1919

OFFICERS, COMMITTEES AND REPRESENTATIVES FOR 1953–1954

President—D. W. Wilson, University of Pennsylvania Medical School, Philadelphia (1953–54).

Vice-President—C. G. King, Nutrition Foundation, Inc., New York (1953–54).

Secretary—Philip Handler, Duke University School of Medicine, Durham, N. C. (1953–54).

Treasurer—P. P. Cohen, University of Wisconsin, Madison (1953–54).

Council—D. W. Wilson, C. G. King, P. Handler, P. P. Cohen, W. M. Stanley, (1951–54), H. E. Carter (1952–55), V. du Vigneaud (1953–56).

Standing Committees

Editorial Board—R. J. Anderson (1931; *Managing Editor*, 1935–42; 1942—); R. M. Archibald (1953–58), E. G. Ball (1950–55), A. K. Balls (1951–56), K. Bloch (1951–56), H. E. Carter (1950–55), C. F. Cori (1941), E. A. Doisy (1938), V. du Vigneaud (1953–58), J. S. Fruton (1953–58), W. H. Griffith (1949–54), S. Gurin (1951–56), A. B. Hastings (1941), L. Hellerman (1951–56), H. B. Lewis (1938), H. S. Loring (1950–55), S. Moore (1950–55), S. Ochoa (1950–55), E. E. Snell (1949–54), W. M. Sperry (1949–54), E. L. Tatum (1953–58), H. B. Vickery (1941), H. G. Wood (1949–54), O. Wintersteiner (1951–56).

Editorial Committee—W. M. Clark (1953–58), *Chairman;* R. K. Cannan (1949–55), V. H. Cheldelin (1953–59), J. T. Edsall (1951–57), C. A. Elvehjem (1953–59), J. M. Luck (1949–55), H. Neurath (1951–57), L. C. Norris (1951–57), D. W. Wilson (1949–55).

Nominating Committee—E. G. Ball (1952–53; 1953–54), *Chairman and Secretary;* K. Bloch (1953–54), H. Borsook (1953–54), G. B. Brown (1953–54), H. B. Bull (1952–53; 1953–54), S. Gurin (1953–54), H. Lardy (1952–53; 1953–54), A. L. Lehninger (1953–54), H. G. Wood (1952–53; 1953–54).

Historian—P. A. Shaffer.

Legal Counselor—Lloyd N. Scott.

Special Committees

Membership Committee, 1953–1954—E. A. Doisy (1952–53; 1953–54), *Chairman;* G. B. Brown (1953–54); W. H. Griffith (1952–53; 1953–54), S. Gurin (1953–54), E. E. Snell (1952–53; 1953–54).

Biochemical Nomenclature (Joint with American Institute of Nutrition) 1953–54 (April 15, 1941)—A. K. Balls, *Chairman*; J. S. Fruton.

Clinical Chemistry, 1953–54 (March 11, 1946)—W. M. Sperry, *Chairman*; R. N. Harger, R. M. Hill, J. Reinhold, H. Sobotka, W. A. Wolff.

Committee on Terminology of Isotopically Labeled Compounds and Presentation of Data on Use of Isotopes (1953–54)—G. B. Brown, *Chairman*; H. E. Carter, C. Heidelberger, B. Riegel, D. Rittenberg, H. G. Wood.

Finance Committee 1953–54—E. A. Evans, Jr., (1951–56), *Chairman;* R. J. Anderson (1951–), P. P. Cohen (1951–54), D. W. Wilson (1953–54).

Revision of By-Laws, 1953–54—C. G. King, *Chairman;* A. K. Balls, E. H. Stotz, H. B. Vickery.

Representatives to Other Organizations

American Association for the Advancement of Science (1941–)—W. D. Armstrong (1953–54), D. Burk (1953–54).

National Committee of Biochemistry (1953–)—V. du Vigneaud (1953–56), *Chairman;* C. G. King (1953–56), W. M. Stanley (1953–55), E. H. Stotz (1953–54).

National Research Council—A. K. Balls, Division of Biology and Agriculture (1953–54), H. B. Vickery, Division of Chemistry and Chemical Technology (1953–54), P. P. Cohen, Division of Medical Sciences (1953–54).

Representative to the International Union of Biochemistry (1949–)—S. Ochoa (1953–54).

PAST OFFICERS

Presidents—**1907** Russell H. Chittenden. **1908** John J. Abel. **1909** Otto Folin. **1910** Thomas B. Osborne. **1911** Lafayette B. Mendel. **1912–1913** Archibald B. Macallum. **1914** Graham Lusk. **1915–1916** Walter Jones. **1917–1918** Carl L. Alsberg. **1919–1920** Stanley R. Benedict. **1921–1922** D. D. Van Slyke. **1923–1924** Philip A. Shaffer. **1925** Henry C. Sherman. **1926** Edward C. Kendall. **1927–1928** E. V. McCollum. **1929–1930** W. R. Bloor. **1931–1932** H. C. Bradley. **1933–1934** W. M. Clark. **1935–1936** H. B. Lewis. **1937–1938** G. E. Cullen. **1939–1940** William C. Rose. **1941–1942** R. J. Anderson. **1943–1944** E. A. Doisy. **1945–1946** A. B. Hastings. **1947–1948** Hans T. Clarke. **1949** Carl F. Cori. **1950** H. B. Vickery. **1951** V. du Vigneaud. **1952** H. A. Mattill.

Vice-Presidents—**1907** J. J. Abel. **1908** Otto Folin. **1909** T. B. Osborne. **1910** L. B. Mendel. **1911** A. B. Macallum. **1912–1913** Graham Lusk.

1914–1915 C. L. Alsberg. **1916** F. P. Underhill. **1917–1918** A. P. Mathews. **1919–1920** D. D. Van Slyke. **1921–1922** P. A. Shaffer. **1923–1924** Henry C. Sherman. **1925** E. C. Kendall. **1926** E. V. McCollum. **1927–1928** W. R. Bloor. **1929–1930** H. C. Bradley. **1931–1932** W. M. Clark. **1933–1934** H. B. Lewis. **1935–1936** G. E. Cullen. **1937–1938** W. C. Rose. **1939–1940** R. J. Anderson. **1941–1942** E. A. Doisy. **1943–1944** A. B. Hastings. **1945–1946** H. T. Clarke. **1947–1948** C. F. Cori. **1949** H. B. Vickery. **1950** V. du Vigneaud. **1951** H. A. Mattill. **1952** D. W. Wilson.

Secretaries—**1907–1909** W. J. Gies. **1910–1912** A. N. Richards. **1913–1915** P. M. Shaffer. **1916–1918** S. R. Benedict. **1919–1923** V. C. Myers. **1924–1925** D. W. Wilson. **1926** Fred C. Koch. **1927–1928** D. W. Wilson. **1929–1932** H. B. Lewis. **1933–1937** H. A. Mattill. **1938–1940** C. G. King. **1941–1945** A. K. Balls. **1946–1948** Otto A. Bessey. **1949** R. W. Jackson. **1950–1953** E. H. Stotz.

Treasurers—**1907–1909** L. B. Mendel. **1910–1912** Walter Jones. **1913–1916** D. D. Van Slyke. **1917–1921** H. C. Bradley. **1922–1925** W. R. Bloor. **1926–1930** G. E. Cullen. **1931–1935** C. H. Fiske. **1936–1940** A. B. Hastings. **1941–1945** W. C. Stadie. **1946–1950** E. A. Evans, Jr. **1951–1953** P. P. Cohen.

CONSTITUTION

From the Articles of Incorporation

1. The name of the proposed corporation is "American Society of Biological Chemists, Incorporated."

2. The purposes for which this corporation is formed are to further the extension of biochemical knowledge and to facilitate personal intercourse between American investigators in biological chemistry.

BY-LAWS

Article I. *Membership*

Section 1. *Eligibility for Membership.* Qualified investigators who have conducted and published meritorious original investigations in biological chemistry shall be eligible for membership in the Society

Section 2. *Nomination.* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

Section 3. *Election to Membership.* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. The eligible candidate shall be reported by the Council as "eligible" or as "eligible and indorsed." B. A majority of the ballots cast shall elect.

Section 4. *Forfeiture.* A. Any member who may grant the use of his name for (a) the advertisement of a patent medicine, a proprietary food preparation, or any other commercial article of doubtful value to the public or possibly harmful to the public health, or (b) who may concede its use for the purpose of encouraging the sale of individual samples (of any such product) that he has not examined, shall forfeit his membership.

B. The Council shall have authority to announce forfeiture of membership, provided that the copy of the charges, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice, shall have been delivered to the member charged with violating the preceding section either personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Section 5. *Expulsion.* Upon the recommendation of the Council any member may be expelled by a majority vote of the total membership at a meeting of the Society, provided that a copy of the charges against him, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice shall have been delivered to him personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Article II. *Meetings and Quorum*

Section 1. *Annual.* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

Section 2. *Special.* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request of a majority of the Council or fifteen members of the Society. A notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

Section 3. *Quorum.* Fifteen members shall constitute a quorum at all meetings of the Society, but in absence of a quorum any number shall be sufficient to adjourn to a fixed date.

Article III. *Officials*

Section 1. *Officers.* The officers shall be a President, a Vice-President, a Secretary, and a Treasurer, who shall be elected annually by the members of the Society.

Section 2. *Council.* A. The Officers so elected and three additional members, one of whom shall be elected at each annual meeting of the Society to serve a three year term, shall constitute the Board of Directors of the corporation and shall be known as "The Council." (When this provision is first put into effect three members will need to be elected for a one, a two and a three year period.)

B. No two members of the Council may be from

the same institution, and none of the officers so elected shall be eligible for re-election for more than two years except the Secretary and Treasurer, who shall be eligible for re-election for five years. The three additional members of the Council shall be ineligible for re-election (until after the lapse of one year).

SECTION 3. *Duties of Officers.* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

SECTION 4. *Assistant Treasurer.* A. The Council may from time to time appoint a trust company, or some member of the Society, to serve during the pleasure of the Council as Assistant Treasurer, and to act as depositary of the investments and income of the "Christian A. Herter Memorial Fund" and of such other funds as the Society may from time to time commit to its or his charge.

B. The Assistant Treasurer shall have and exercise the following powers and duties, viz., the custody and safe-keeping of securities and cash belonging to the "Christian A. Herter Fund" and the collection of income and other moneys due to the Fund, with power to receipt for the same and to endorse for deposit all checks payable to the Society or the Treasurer, or to the Journal of Biological Chemistry for income or other moneys due to the Fund, the investment or reinvestment of the capital of the Fund, subject to the approval of the Council; the disbursement of principal under the direction of the Council and the disbursement of income under the direction of the Editorial Board of the Journal of Biological Chemistry, such disbursement to be made under a resolution of the Council or Board, or with the approval of two members of either the Council or Board, as the case may be. The Assistant Treasurer shall keep books of account and render statements, annually or oftener upon the request of the Council or Board setting forth the condition of the Fund and the receipts and disbursements since the date of the preceding statement.

ARTICLE IV. *The Council*

SECTION 1. *Powers.* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Directors of a membership corporation by the Membership Corporation Law of the State of New York.

SECTION 2. *Reports.* The Council shall report to the Society as promptly as possible its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

SECTION 3. *Journal of Biological Chemistry.* The Council shall have power to appoint the persons to act as proxies for the Society at all meetings of the stockholders of the "Journal of Biological Chemistry" (a corporation) of which all the stock is owned by the Society, and also to designate the persons to be elected as Directors of such corporation.

SECTION 4. *Herter Fund.* It shall be the duty of the Council to see that the "Christian A. Herter Memorial Fund" is administered in accordance with the terms of the Trust Agreement, dated May 16, 1911, executed by the Journal of Biological Chemistry and the donors of said Fund.

ARTICLE V. *Nominating Committee*

SECTION 1. *Membership.* A. The Nominating Committee shall consist of nine members from nine different institutions elected at each annual meeting to serve for the ensuing year. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for re-election until after the lapse of one year.

B. The member of the Nominating Committee who is elected to the Committee by the largest number of votes shall become Chairman and Secretary of the Committee.

SECTION 2. *Nomination of Officials.* A. The Nominating Committee shall make at least one nomination for each of the four offices and for each of the three additional positions in the Council to be filled by vote of the members.

B. The nominations by the Nominating Committee must be transmitted to the Secretary at least one month before the annual meeting at which they are to be considered.

C. The Secretary shall send to every member, at least two weeks before the annual meeting, two copies of the list of nominees presented to him by the Nominating Committee and at the same time shall notify all the members that they may vote by proxy.

D. At the opening of the first executive session of the ensuing annual meeting the Secretary shall formally present the regular nominations for the Nominating Committee.

E. Additional nominations for the offices and for membership in the Council may be made by any member at the opening of the first executive session of any annual meeting.

F. Nominations for membership on the Nominating Committee shall be made by or for individual members, either in person or by proxy, and not otherwise, at the opening of the first executive session of any annual meeting.

SECTION 3. *Election of Officials.* A. The Secretary shall receive and present to the tellers, appointed by the President to take charge of the election, all signed ballots forwarded by absent members. When such ballots are presented to the tellers the Secretary shall announce the names of the mem-

bers voting by proxy, and he shall record the same names in the minutes of the meeting.

B. All elective officials shall be selected by ballot at the close of the first executive session of each annual meeting.

C. A majority of the votes cast shall be necessary to elect an official.

D. Elective officials shall take office on July 1st following the annual meeting.

SECTION 4. *Filling of Vacancies.* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society.

B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues.* Annual assessments shall be determined by majority vote at the annual meetings, upon the recommendation of the Council, and shall be due January 15th in each year. Members who have reached the age of 65 years, or who have become incapacitated, may, by vote of the Council, be exempted from the payment of dues.

SECTION 2. *Expenditures.* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council, but this section shall not apply to expenditures from the "Christian A. Herter Memorial Fund."

SECTION 3. *Privileges of Membership Begin with Payment of Dues.* Candidates for membership, if elected, shall not be entitled to any of the privileges of membership, before they pay the dues of the fiscal year succeeding their election.

SECTION 4. *Penalty for Non-Payment of Dues.* A. Members in arrears for dues for a period of three consecutive years shall thereupon forfeit their membership.

B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

SECTION 5. *Herter Fund.* The "Christian A. Herter Memorial Fund" shall be held and invested separately from the general funds of the Society and the income thereof shall be expended under the direction of the Editorial Board exclusively for the maintenance and support of the Journal of Biological Chemistry, subject to the supervision and control of the Editorial Committee in accordance with the terms of the Trust Agreement mentioned in ARTICLE IV, SECTION 4, and the provisions of ARTICLE VII of the By-Laws.

ARTICLE VII. *Journal of Biological Chemistry*

SECTION 1. *Editorial Committee.* There shall be an Editorial Committee consisting of nine members of the Society who shall be nominated by the Nominating Committee and elected by the Society in the same manner as officers. The nine members first elected shall divide themselves by lot into three classes of three in each class, to serve for two, four, and six years respectively, and thereafter three members shall be elected at each alternate annual meeting of the Society to succeed the members of the outgoing class and to serve for a term of six years. Members of the Committee shall be eligible to re-election.

SECTION 2. *Powers of Committee.* The Committee shall have power to elect an Editorial Board and shall have final authority in matters pertaining to the general policy of the Journal.

SECTION 3. *Editorial Board.* The members of the Board shall hold office until their successors are elected and shall appoint a Managing Editor from among their own number who shall have direct responsibility and authority for the active editorial conduct of the Journal, and who shall have discretionary power in arranging the details as to the conduct of the Journal. The expenditures of the income of the "Christian A. Herter Memorial Fund" shall be under the direction of the Board, and the approval of any two members of the Board shall be a sufficient warrant to authorize payments from such income.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. *Presentation of Papers.* The Secretary shall request each member who signifies his intention of reading a paper at any session to specify the length of time which its presentation will require. The time thus specified shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper.

SECTION 2. *Number of Papers.* No member shall be permitted to present more than one paper, either alone or in collaboration, until every member shall have had the opportunity of presenting one paper.

ARTICLE IX. *Corporate Seal*

SECTION 1. The corporate seal of the corporation shall be a circle surrounded by the words, "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS," and including the word, "INCORPORATED."

ARTICLE X. *Amendments*

SECTION 1. *Amendments.* These By-Laws, after having been approved by the Council, and adopted by the Society at its first annual meeting, shall not be amended except as hereinafter provided.

SECTION 2. *Manner of Presentation.* Proposed amendments to the By-Laws must be sent to the Secretary at least one month before the date of the meeting at which they are to be considered and must be indorsed in writing by at least three members.

SECTION 3. *Notice of Intended Amendments.* Secretary shall give every member notice of proposed amendments at least two weeks before the meeting at which they are to be considered and shall notify all members that they may vote by proxy.

SECTION 4. *Adoption of Amendments.* A. The Secretary shall receive and present to the tellers appointed by the President all signed ballots forwarded by absent members. When such ballots are presented to the tellers, the Secretary shall announce the names of members voting by proxy, and he shall record the same names in the minutes of the meeting.

B. Votes upon amendments shall be cast at the opening of the second executive session of the meeting at which they are considered.

C. Affirmative votes from three-fifths of the members voting shall be required for the adoption of an amendment.

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

Founded December 28, 1908; Incorporated June 19, 1933

OFFICERS, 1953–1954

President—HARVEY B. HAAG, Medical College of Virginia, Richmond.

President-Elect—CHARLES M. GRUBER, Jefferson Medical College, Philadelphia, Pa.

Secretary—CARL C. PFEIFFER, University of Illinois College of Medicine, Chicago.

Treasurer—ROBERT P. WALTON, Medical College of the State of South Carolina, Charleston.

Past President—K. K. CHEN, Lilly Research Laboratories, Indianapolis, Ind.

Council—HARVEY B. HAAG, CHARLES M. GRUBER, CARL C. PFEIFFER, ROBERT P. WALTON, K. K. CHEN, PETER K. KNOEFEL (1954), ALLAN D. BASS (1955), JULIUS COMROE (1956).

Membership Committee—O. SIDNEY ORTH, (1954), *Chairman;* ALFRED GILMAN (1955), ARTHUR P. RICHARDSON (1956).

Nominating Committee—HARRY BECKMAN, *Chairman;* JAMES L. MORRISON, JAMES A. BAIN, J. A. WELLS, R. K. RICHARDS.

Historian—E. M. K. GEILING.

Representatives to the Council of the American Association for the Advancement of Science—HELEN T. GRAHAM, O. H. LOWRY.

Representative to the Division of Medical Sciences, National Research Council—MCKEEN CATTELL.

Representative to Federation Advisory Committee to National Society for Medical Research—J. H. WELLS.

Editorial Boards

Board of Publications Trustees—M. H. SEEVERS, *Chairman* (1954); C. A. DRAGSTEDT (1955); MCKEEN CATTELL (1956).

Journal of Pharmacology and Experimental Therapeutics—H. B. VAN DYKE, *Editor;* W. C. WESCOE, OSCAR BODANSKY, SEYMOUR S. KETY, E. K. MARSHALL, JR., LLOYD C. MILLER, GORDON K. MOE, WALTER F. RIKER, JR., LEON H. SCHMIDT, JAMES A. SHANNON.

Pharmacological Reviews—L. S. GOODMAN, *Editor*, J. H. BURN, THOMAS C. BUTLER, HARRY EAGLE, U. S. v. EULER, J. H. GADDUM, ALFRED GILMAN, ERIK JACOBSEN, OTTO KRAYER, MILES WEATHERALL.

PAST OFFICERS

Presidents—**1909–1912** J. J. ABEL. **1913–1915** T. SOLLMANN. **1916–1918** REID HUNT. **1919–1920** A. S. LOEVENHART. **1921–1923** C. W. EDMUNDS. **1924–1926** JOHN AUER. **1927–1929** CARL VOEGTLIN. **1930–1931** G. B. WALLACE. **1932–1933** W. DE B. MACNIDER. **1934** R. A. HATCHER. **1935–1936** V. E. HENDERSON. **1937–1938** A. L. TATUM. **1939** O. H. PLANT. **1940–1941** E. M. K. GEILING. **1942–1943** E. K. MARSHALL, JR. **1944–1945** E. E. NELSON. **1946–1947** M. H. SEEVERS. **1948** C. A. DRAGSTEDT. **1949–1950** C. F. SCHMIDT. **1951** MCKEEN CATTELL. **1952–1953** K. K. CHEN.

Vice-Presidents—**1932** A. N. RICHARDS. **1933–1934** A. L. TATUM. **1935–1936** O. H. PLANT. **1937–1939** E. M. K. GEILING. **1940–1941** C. F. SCHMIDT. **1942–1943** C. A. DRAGSTEDT. **1944–1945** C. M. GRUBER. **1946** H. B. VAN DYKE. **1947** C. A. DRAGSTEDT. **1948** H. B. VAN DYKE. **1949** J. C. KRANTZ. **1950** MCKEEN CATTELL.

Secretaries—**1909–1911** REID HUNT. **1912–1916** J. AUER. **1917** L. G. ROUNTREE. **1918–1930** E. D. BROWN. **1931–1933** V. E. HENDERSON. **1934–1936** E. M. K GEILING. **1937–1940** G. P. GRABFIELD. **1941–1945** R. N. BIETER. **1946–1950** H. B. HAAG. **1951–** C. C. PFEIFFER.

Treasurers—**1909–1913** A. S. LOEVENHART. **1914–1920** W. DEB. MACNIDER. **1921–1923** H. MCGUIGAN. **1924–1928** A. L. TATUM. **1929–1934** O. H. PLANT. **1935–1938** C. M. GRUBER. **1939–1943** E. E. NELSON. **1944–1946** MCKEEN CATTELL. **1947–1950** K. K. CHEN. **1951–** R. P. WALTON.

CONSTITUTION

ARTICLE I. *Name*

The name of this organization shall be the "AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, INCORPORATED."

ARTICLE II. *Objects*

The purpose of this Society shall be to promote these branches of science and to facilitate personal intercourse between investigators who are actively engaged in research in these fields.

ARTICLE III. *Membership*

SECTION 1. Any person who has conducted and published a meritorious investigation in pharmacology or experimental therapeutics, and who is an active investigator in one of these fields, shall be eligible to membership, subject to the conditions of the other sections of Article III.

SECTION 2. A. Candidates for membership to this Society shall be proposed by two members who are

not members of the Council. The names so proposed shall be sent to the Secretary at least three months prior to the Annual Meeting.

B. The Membership Committee shall investigate the qualifications of the candidates and report to the Council.

C. Candidates reported upon by the Membership Committee to the Council may be recommended for admission by the Council only provided they have been approved by four-fifths of the combined membership of the Membership Committee and the Council.

D. The names of the candidates recommended for admission by the Council shall be posted by the Secretary not later than the day preceding the election for members.

E. The election of members shall be by individual ballot; one opposing vote in every eight cast shall be sufficient to exclude a candidate from membership.

SECTION 3. *Forfeiture of Membership.*

A. Any member whose assessment is three years in arrears shall cease to be a member of the Society, unless he shall be reinstated by a special vote of the Council; and it shall be the duty of the Treasurer to inform the Secretary that he may notify the said delinquent of his right to appeal to the Council.

B. If the Council shall decide that it is for the best interests of the Society that a member be expelled, the member shall be notified and given an opportunity of a hearing before the Council. Upon the recommendation of the Council the member then may be expelled by a three-fourths vote of those present at a regular meeting of the Society.

SECTION 4. *Honorary Members.*

A. Distinguished men of science who have contributed to the advance of pharmacology or experimental therapeutics shall be eligible for election as honorary members of the Society.

B. Nominations for honorary members shall take the same course as nominations for ordinary members (Art. III, Sec. 2); but their election shall require the unanimous vote of the members present at the election.

C. Honorary members shall pay no membership fee. They shall have the right to attend all meetings of the Society, and to take part in its discussions, but they shall have no vote.

D. The conditions for continuation of membership shall be the same for honorary as for ordinary members (Art. III, Sec. 3), except that forfeiture for arrears of fees does not apply to honorary members.

ARTICLE IV. *Officers and Elections*

SECTION 1. *Officers and Committees.*

A. The management of the Society shall be vested in a Council of eight officers consisting of a President, President-Elect, Past President, Secretary, Treasurer of the Society, and three Councilors-at-Large.

B. The President-Elect, Secretary, Treasurer and one Councilor-at-Large shall be elected at each annual meeting and shall assume their respective duties on July 1 following their election. The Secretary and Treasurer may succeed themselves. The President-Elect shall become President after serving one year as President-Elect or in case of death or resignation of the President. No person who has served as President is eligible for re-election as President-Elect.

C. The three Councilors-at-Large shall serve for a period of three years, and shall not be eligible for immediate re-election.

D. There shall be a Membership Committee, consisting of three members. No two members shall be from the same institution. The election of the Membership Committee shall be held annually at the time when the election of officers occurs. At the first meeting of the Society under this constitution, one member shall be elected to serve on the Committee for three years, one for two years, and one for one year; and subsequently one member shall be elected each year to serve for a period of three years.

E. There shall be a Nominating Committee of five members. No two members shall be from the same institution. Members of the Nominating Committee shall serve for one year. They are eligible for re-election, but shall not hold membership in the Committee for more than two consecutive years.

F. No person may hold dual membership on the Council, Membership or Nominating Committees.

G. Members of the Nominating Committee are not eligible to nomination for other office.

SECTION 2. *Nomination of Officials and Committeemen.*

A. The Nominating Committee shall make at least one nomination for each office and for the position on the Membership Committee to be filled by vote of the members. The nominations so made shall be transmitted to the Secretary and by him in turn to the members, at least one month before the annual meeting.

B. Nominations for membership on the Nominating Committee shall be made by individual members at the time of the annual election. The five nominees who receive the highest numbers of votes shall be declared elected. The Nominating Committee shall select its own Chairman who shall serve as Secretary to the Committee.

SECTION 3. *Election of Officials and Committeemen.*

A. At the opening of the first executive session of the annual meeting the Secretary shall give to each member present a printed ballot showing the nominations of the Nominating Committee. After accepting additional nominations from individual members present a complete list of nominees shall be posted. A preliminary vote shall then be taken and the tellers, appointed by the President to conduct the election, shall post immediately a final list showing the two nominees for each office receiving the highest number of votes. At the close of the first session, a final vote shall be taken. A majority of votes cast shall be necessary to a choice.

B. Such vacancies as may occur in the offices and in the various committees in the interval between annual meetings shall be filled by a majority vote of the Council.

ARTICLE V. *Meetings*

SECTION 1. The annual meeting of the Society shall be held at a time and place determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

SECTION 2. Special meetings may be held at such times and places as the Council may determine.

SECTION 3. At least four weeks before the annual meeting the Secretary shall send to each member a notice of the time and place of such meeting and shall make such announcements as the Council may direct.

ARTICLE VI. *Financial*

SECTION 1. The annual assessment shall be determined by majority vote at the annual Spring meeting, upon the recommendation of the Council, and shall be due at the close of each such meeting.

SECTION 2. Beyond the ordinary expenditures required by the routine business of the Society no money shall be disbursed save by the authority of the Council or Society.

SECTION 3. The treasurer shall make an annual report to the Society.

SECTION 4. All publication funds shall be kept in a separate account, subject to the control of the Board of Publications Trustees except that none of these funds may be diverted from the support of publications of the Society except by consent of the Council or the Society. A financial report shall be made by the Board at each annual meeting.

ARTICLE VII. *Quorum*

Ten members shall constitute a quorum for the transaction of business.

ARTICLE VIII. *By-Laws*

By-Laws shall be adopted, altered or repealed at any meeting by two-thirds vote of the ballots cast.

ARTICLE IX. *Amendments*

SECTION 1. Intended amendments to the Constitution shall be sent to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be indorsed in writing by at least three members.

SECTION 2. The Secretary shall give all members due notice of proposed amendments.

SECTION 3. A four-fifths vote of the members present shall be required for the adoption of an amendment.

ARTICLE X. *Official Publications*

SECTION 1. The President of the Society shall appoint, in consultation with the Council, and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publications Trustees; these members shall elect a Managing Editor for each of the official journals of the Society, and each Managing Editor, during the term of his service, shall act as an additional voting member of the Board of Publications Trustees and shall participate in all the activities of the Board except that of election of managing editors of the journals of the Society

SECTION 2. The members of the Board of Publications Trustees, hereinafter termed "The Board," shall each serve for a term of three years, shall be subject to reappointment, and may hold office concurrently in the Society. At the first appointment, however, one member shall be appointed for three years, one member for two years, and one member for one year, in order that in the future, appointments may be made annually in rotation. The Board shall meet at least once annually (a quorum shall consist of three members) and shall report directly to the Society.

SECTION 3. The special functions of The Board shall be to consider and to investigate thoroughly all matters pertaining to the fiscal and editorial policies of the journals which may come to the Society or to its Council, to the Managing Editors, and to the members of The Board. The Board shall (1) administer the finances of the journals, (2) establish the publication policies of the journals, and (3) elect a Managing Editor for each of the journals of the Society (as described in Sec. 1).

SECTION 4. The Managing Editor of each journal shall nominate to The Board, members of the Society acceptable to him as Associate Editors. In the event that the Society should develop an International Journal, foreign Associate Editors

who are not members of the Society are eligible for nomination and appointment to the Editorial Board of said Journal. From those nominated, The Board shall elect, for each journal, Associate Editors in such number as they shall consider adequate to fulfill the duties of that Editorial Board. The Managing Editor and each Associate Editor shall serve for three years, subject to reappointment, and may hold office concurrently in the Society. In the choice of The Boards of Editors, The Board is charged with the responsibility of obtaining editors with expert knowledge in the several fields of pharmacological research and with evidenced ability for critical and grammatical expression.

SECTION 5. The Boards of Editors of the journals shall meet on call of the respective Managing Editor, if possible just prior to or during the regular meetings of the Society, and may make recommendations to The Board concerning the improvement of the publication policies of the journals.

BY-LAWS

1. Papers to be read shall be submitted by the members of the Society to the Secretary, who, with the President, shall be empowered to arrange the program. No person may orally present more than one paper. In case of joint authorship, the name of the individual who will orally present the paper shall stand first. Papers not read shall appear on the program as read by title.

2. An abstract of a paper to be read before the Society shall be sent to the Secretary with the title. As early as possible after each meeting, the Secretary shall edit and publish the Proceedings of the Society together with abstracts in a publication authorized by the Society.

3. All applications for membership shall be accompanied by a copy of as many reprints as possible of the published work of the applicant.

4. Any member who has been an active member for thirty years, or who has retired for disability or age, may upon notification to the Treasurer be relieved from payment of dues.

THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY

Founded December 29, 1913

OFFICERS, 1953-1954

President—D. Murray Angevine, University of Wisconsin Medical School, Madison.

Vice-President—Russell L. Holman, Louisiana State University School of Medicine, New Orleans.

Secretary-Treasurer—Cyrus C. Erickson, University of Tennessee College of Medicne, Memphis.

Councilors—D. Murray Angevine, Russell L. Holman, Cyrus C. Erickson, Harold L. Stewart, F. W. Hartman.

Representative on the Division of Medical Sciences of the National Research Council—R. L. Holman.

Representatives on the Council of the American Association for the Advancement of Science—G. John Buddingh, E. B. Krumbhaar.

Representatives on the Eli Lilly Award Committee (jointly with the Society of American Bacteriologists)—*For nominations:* S. C. Madden. *For award:* D. Murray Angevine.

Representative on the Committee for the Placement Service—Russell L. Holman.

Representative on the Board of the College of American Pathologists—Cyrus C. Erickson.

Representative on the Commission for Biological Stains—D. Murray Angevine.

PAST OFFICERS

Presidents—**1914** R. M. Pearce. **1915** Theobald Smith. **1916** Simon Flexner. **1917** Ludvig Hektoen. **1918** H. Gideon Wells. **1919** W. G. MacCallum. **1920** W. H. Park. **1921** F. G. Novy. **1922** H. T. Karsner. **1923** E. L. Opie. **1924** A. S. Warthin. **1925** G. H. Whipple. **1926** Wade H. Brown. **1927** David Marine. **1928** E. B. Krumbhaar. **1929** W. F. Petersen. **1930** F. L. Gates. **1931** S. R. Haythorn. **1932** Peyton Rous. **1933** C. V. Weller. **1934** S. B. Wolbach. **1935** Oskar Klotz. **1936** A. R. Dochez. 1937 C. P. Miller. **1938** Morton McCutcheon. **1939** E. W. Goodpasture. **1940** Shields Warren. **1941** J. L. Bollman. **1942–1945** Balduin Lucké. **1946** P. R. Cannon. **1947** D. H. Sprunt. **1948** H. P. Smith. **1949** J. G. Kidd. **1950** J. F. Rinehart. **1951** Frieda S. Robscheit-Robbins. **1952** S. C. Madden.

Vice-Presidents—**1914** J. S. Anderson. **1915** G. H. Whipple. **1916–1917** Leo Loeb. **1918** W. G. MacCallum. **1919** W. H. Park. **1920** F. G. Novy. **1921** H. T. Karsner. **1922** E. L. Opie. **1933** A. S. Warthin. **1924** G. H. Whipple. **1925** W. H. Brown. **1926** David Marine. **1927** E. B. Krumbhaar. **1928** W. F. Petersen. **1929** F. L. Gates. **1930** S. R. Haythorn. **1931** Peyton Rous. **1932** C. V. Weller. **1933** S. B. Wolbach. **1934** Oskar Klotz. **1935** A. R. Dochez. **1936** C. P. Miller. **1937** Morton McCutcheon. **1938** E. W. Goodpasture. **1939** Shields Warren. **1940** J. L. Bollman. **1941** Balduin Lucké. **1942–1945** P. R. Cannon. **1946** D. H. Sprunt. **1947** H. P. Smith. **1948** J. G. Kidd. **1949** J. F. Rinehart. **1950** F. S. Robscheit-Robbins. **1951** S. C. Madden. **1952** D. M. Angevine.

Secretary-Treasurers—**1914** G. H. Whipple. **1915–1916** Peyton Rous. **1917–1920** H. T. Karsner. **1921–1923** Wade H. Brown. **1924–1926** E. B. Krumbhaar. **1927–1929** C. V. Weller. **1930–1933** C. P. Miller. **1934–1936** Shields Warren. **1937–1939** P. R. Cannon. **1940–1945** H. P. Smith. **1946–1948** F. S. Robscheit-Robbins. **1949–1950** Sidney C. Madden. **1951–** R. L. Holman.

CONSTITUTION

Article I. *Name*

The Society shall be named "The American Society for Experimental Pathology."

Article II. *Object*

The object of this Society is to bring the productive investigators in pathology, working essentially by experimental methods, in closer affiliation with the workers in the other fields of experimental medicine.

Article III. *Time and Place of Meeting*

The Society shall meet at the same time and place as the Federation of American Societies for Experimental Biology, which comprises at present the American Physiological Society, the American Society of Biological Chemists, the American Society for Pharmacology and Experimental Therapeutics, the American Society for Experimental Pathology, the American Institute of Nutrition and the American Association of Immunologists.

Article IV. *Membership*

Section 1. Any American investigator who, through the use of experimental methods, has, within three years prior to his candidacy, contributed meritorious work in pathology, is eligible to membership.

Section 2. It shall be the policy of the Society to restrict its membership to as small numbers as is compatible with the maintenance of an active existence.

Section 3. There shall be two classes of members: active and honorary members.

Active members: Candidates for active membership shall be nominated at or before an annual meeting by two members of the Society. The nominators shall present to the Secretary in writing evidence of the candidate's qualifications for membership. Nominations approved by the Council shall be presented to the Society for election at the next annual meeting following nomination. For election a favorable ballot by a majority of the members present is necessary.

Honorary members: These may be elected from the active list or from the group of distinguished investigators at home or abroad who have contributed to the knowledge of pathology by experimental study. They shall be elected only by the unanimous vote of the members present at time of nomination.

SECTION 4. Active members shall pay such annual dues as are determined upon, from year to year, by the Council. Honorary members shall pay no dues, are not eligible to office, and have no vote in the business affairs of the Society, but they shall have all the privileges of the active members in the scientific proceedings.

SECTION 5. Upon failure of an active member to pay dues for two years, notice shall be given to the member by the Secretary. At the end of the third year, if dues are still unpaid, such failure constitutes forfeiture of membership.

SECTION 6. A motion for expulsion of a member must be thoroughly investigated by the Council; at this investigation the accused shall be afforded a hearing or may be represented by a member. Expulsion can be accomplished only after a unanimous vote by the Council in favor of expulsion, sustained by a four-fifths vote of the members present at the meeting.

ARTICLE V. *Officers*

The management of the Society shall be vested in a Council of five members, consisting of a President, a Vice-President, a Secretary-Treasurer, and two other members who shall be nominated by the Council and elected by the Society. Officers are elected by a majority vote and remain in office until July 1 following the Federation Meeting. Vacancies shall be filled by the Council for the unexpired term.

The President and Vice-President shall hold office for one year and are ineligible for re-election during the following year. The Secretary-Treasurer is eligible for re-election. Councilors shall hold office for two years and are elected on alternate years. At the first election one Councilor shall be elected for a short term of one year.

ARTICLE VI. *Quorum*

SECTION 1. Three constitute a quorum of the Council. The Council decides by a majority vote.

SECTION 2. A quorum of the Society for transaction of business shall be one-fourth of the total membership. In all questions brought before the Society a majority vote of those present shall decide, except as elsewhere provided for.

ARTICLE VII. *Annual Meeting*

SECTION 1. Papers shall be limited to ten minutes. However, on motion and with unanimous consent, the time may be prolonged by a period not exceeding five minutes. The Council may make provision for longer papers on suitable occasions.

SECTION 2. The subjects of papers must be confined to experimental work in pathology. In doubtful cases a liberal interpretation by the President and Secretary may prevail. The Council may invite, however, presentations dealing with any subject which it considers of considerable interest to the Society.

ARTICLE VIII. *Change of Constitution*

A motion concerning a change of the Constitution must be presented to the Council in writing by three members, and must be communicated to the members by the Secretary at least four weeks before the annual meeting. At this meeting such a change may be established when accepted by a four-fifths vote of the members present.

BY-LAWS

1. There must be in each year at least one meeting of the Council, which shall take place not later than the evening before the annual meeting.

2. At the end of the first session of the annual meeting the Secretary shall read the report of the Council. This report shall include (1) names of persons recommended for membership, (2) nominations for offices, (3) matters of general interest. The Secretary shall exhibit in a conspicuous place the names of candidates for membership recommended by the Council, together with the evidence of the qualifications of the candidates.

3. The election of officers and of new members, changes in the Constitution, etc., shall be voted upon at the end of the first session.

4. Changes in the By-Laws may be determined by a majority vote of those present.

5. In the year that a new Secretary-Treasurer is elected the incoming Council Member elected that year, or another member of the Council, shall become Assistant Secretary-Treasurer for the duration of the term of the Secretary-Treasurer.

AMERICAN INSTITUTE OF NUTRITION, INC.

Founded April 11, 1933; Incorporated November 16, 1934
Member of Federation 1940

OFFICERS, 1953-1954

President—C. A. ELVEHJEM, University of Wisconsin, Madison.

Vice-President—GEORGE R. COWGILL, Yale University, New Haven, Conn.

Past-President—PAUL L. DAY, University of Arkansas School of Medicine, Little Rock.

Secretary—JAMES M. ORTEN, Wayne University College of Medicine, Detroit, Mich.

Treasurer—O. L. KLINE, Food and Drug Administration, Washington, D. C.

Council—C. A. ELVEHJEM, G. R. COWGILL, P. L. DAY, J. M. ORTEN, O. L. KLINE, GRACE A. GOLDSMITH (1953), GLADYS A. EMERSON (1954), H. D. KRUSE (1955).

Nominating Committee—L. A. MAYNARD, *Chairman;* H. R. BIRD, W. J. DARBY, W. H. GRIFFITH, A. H. SMITH.

Committee on Registry of Pathology of Nutritional Diseases—HERBERT POLLACK, *Chairman*, W. H. SEBRELL, JR., E. L. SEVRINGHAUS, O. A. BESSEY; *Consultants:* P. B. CANNON, PAUL KLEMPERER, B. S. WOLBACH; *Secretary*: C. L. PIRANI.

Representatives on Committee on Biological Nomenclature (joint with American Society of Biological Chemists)—C. G. KING, E. M. NELSON.

Representative to the Division of Biology and Agriculture, to the Agricultural Research Institute and to the Food and Nutrition Board, National Research Council—W. C. RUSSELL, L. A. MAYNARD (alternate).

Representatives to American Association for the Advancement of Science Council—J. H. ROE, F. J. STARE.

Editorial Board, Journal of Nutrition

GEORGE R. COWGILL, *Editor* (1954); V. H. CHELDELIN (1954), CARL V. MOORE (1954), H. H. WILLIAMS (1954), ALEX BLACK (1955), FLOYD S. DAFT (1955), HARRY G. DAY (1955), JAMES B. ALLISON (1956), CARL A. BAUMANN (1956), L. C. NORRIS (1956), E. W. CRAMPTON (1957), RUBEN W. ENGEL (1957), GLADYS A. EMERSON (1957).

PAST OFFICERS

Presidents—**1933** L. B. MENDEL. **1934–1935** J. R. MURLIN. **1936** E. F. DU BOIS. **1937** MARY S. ROSE. **1938** E. V. MCCOLLUM. **1939** H. C. SHERMAN. **1940** T. M. CARPENTER. **1941** A. G. HOGAN. **1942** L. A. MAYNARD. **1943** H. B. LEWIS. **1944** ICIE G. MACY-HOOBLER. **1945** W. C. ROSE. **1946** A. H. SMITH. **1947** R. M. BETHKE. **1948** E. M. NELSON. **1949** C. G. KING. **1950** W. H. GRIFFITH. **1951** C. M. MCCAY. **1952** PAUL L. DAY.

Vice-Presidents—**1933** H. C. SHERMAN. **1934–1935** E. F. DUBOIS. **1936** MARY S. ROSE. **1937** E. V. MCCOLLUM. **1938–1939** T. M. CARPENTER. **1940** A. G. HOGAN. **1941** L. A. MAYNARD: **1942** H. B. LEWIS. **1943** ICIE G. MACY-HOOBLER. **1944** W. C. ROSE. **1945** A. H. SMITH. **1946** R. M. BETHKE. **1947** E. M. NELSON. **1948** C. G. KING. **1949** W. H. GRIFFITH. **1950** C. M. MCCAY. **1951** P. L. DAY. **1952** C. A. ELVEHJEM.

Secretaries—**1933** J. R. MURLIN. **1934–1937** ICIE G. MACY. **1938–1940** L. A. MAYNARD. **1941–1944** A. H. SMITH. **1945–1947** H. E. CARTER. **1948–1950** J. H. ROE. **1951–** J. M. ORTEN.

Treasurers—**1933** J. R. MURLIN. **1934** W. M. BOOTHBY. **1935–1939** G. R. COWGILL. **1940–1943** W. H. SEBRELL, JR. **1944–1946** E. M. NELSON. **1947–1949** N. R. ELLIS. **1950–1952** N. B. GUERRANT.

CONSTITUTION

1. The name of the proposed society is the "AMERICAN INSTITUTE OF NUTRITION."

2. The purposes of the society are to further the extension of the knowledge of nutrition and to facilitate personal contact between investigators in nutrition and closely related fields of interest.

3. The management of the American Institute of Nutrition shall be vested in a council consisting of the President, Vice-President, Past President, Secretary, Treasurer and three additional members.

BY-LAWS

ARTICLE I. *Membership*

SECTION 1. *Eligibility for membership:* Members. Qualified investigators who have independently conducted and published meritorious original investigations in some phase of the chemistry or physiology of nutrition and who have shown a professional interest in nutrition for at least 5 years shall be eligible for membership in the Society.

SECTION 2. *Nomination:* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make

recommendation to the Society at a regular meeting.

SECTION 3. *Election to membership:* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. B. A majority of the ballots cast shall elect.

SECTION 4. *Forfeiture:* If a majority of the Council after due notice to the member in question and opportunity for a hearing, shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

ARTICLE II. *Meetings and Quorum*

SECTION 1. *Annual:* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SECTION 2. *Special:* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request in writing of a majority of the Council or fifty members of the Society. Notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

SECTION 3. *Quorum:* Thirty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall shall be sufficient to adjourn to a fixed date.

ARTICLE III. *Officials*

SECTION 1. *Officers:* The officers shall be a President, and a Vice-President, who shall be elected annually, and a Secretary and Treasurer, each of whom shall be elected to serve for a term of three years. These officers shall be elected by the members of the Society. Their terms of office shall commence on July 1 of the year in which they are elected.

SECTION 2. *Council:* The officers so elected, the Past President and three additional members, one of whom shall be elected at each annual meeting to serve a term of three years, shall constitute a Board of Trustees and shall be known as "The Council." (When this provision is first put into effect one member shall be elected for 1 year, one for 2 years and the third for 3 years.)

SECTION 3. *Duties of Officers:* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

ARTICLE IV. *The Council*

SECTION 1. *Powers:* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Trustees of an educational institution chartered by the Education Department of the University of the State of New York. A permanent charter was issued to the American Institute of Nutrition under date of November 16, 1934.

SECTION 2. *Reports:* The Council shall report to the Society its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

ARTICLE V. *Nominating Committee*

SECTION 1. *Membership:* A. The Nominating Committee shall consist of five members appointed for the coming year by the retiring President. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for reappointment until after a lapse of one year. B. The President shall designate one member to be Chairman of the Nominating Committee.

SECTION 2. *Nomination of Officials:* A. The Nominating Committee shall make at least one nomination for each of the four offices, for each of the additional positions on the Council to be filled by vote of the members and for each of the positions on the Editorial Board to be vacated at the time of the annual meeting. Any member of the Institute may submit nominations to the Nominating Committee for its consideration along with those nominations made by the members of the Nominating Committee. B. The nominations by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting at which they are to be considered. C. The Secretary shall send to every member, at least two weeks before the annual meeting, a printed ballot containing the list of nominees and space for such additional names as the member wishes to propose, and at the same time shall notify the members that they may vote by mail, returning to the Secretary the marked ballot in the envelope provided, at such a time and place as the Secretary may designate, or the ballot may be delivered to the Secretary at the beginning of the business session at which the elections are to take place.

SECTION 3. *Election of officials:* A. At the beginning of the business session the Secretary shall

present to the tellers, appointed by the President, the ballots submitted by the members and the ballots shall be counted forthwith. B. A majority of votes cast shall be necessary to elect an official.

SECTION 4. *Filling of Vacancies:* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues:* The dues shall be the annual cost of subscription to The Journal of Nutrition for members plus an annual assessment which shall be determined by majority vote at the annual meetings, upon recommendation of the Council, and shall be due within a month after the annual meeting. A member on attaining the age of 65 may elect to be relieved from all financial obligations to the Institute including subscription to The Journal of Nutrition.

SECTION 2. *Expenditures:* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council.

SECTION 3. *Penalty for non-payment of dues:* A. Members in arrears for dues for two consecutive years shall forfeit their membership. B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

ARTICLE VII. *The Journal of Nutrition*

SECTION 1. The American Institute of Nutrition designates *The Journal of Nutrition* as its official organ of publication.

SECTION 2. In accordance with the expressed wish of the Wistar Institute of Anatomy and Biology, owner and publisher of *The Journal of Nutrition*, the American Institute of Nutrition shall nominate members of the Editorial Board for its official organ. A. The editorial management of *The Journal of Nutrition* shall be vested in an Editorial Board consisting of an Editor and twelve Board Members. B. The Editor shall be chosen by the Editorial Board to serve a term of five years beginning July 1 of the year in which he is chosen, and shall be eligible for reëlection. The Editor shall have the power to designate one of the Board Members to serve as his assistant, and such an appointee shall be called Associate Editor. C. Three members of the Institute shall be nominated by the Nominating Committee for membership on the Editorial Board each year to serve a term of four years, replacing three retiring members and taking office May 1 of the year in which they are elected. In the event of a vacancy in the membership of the Editorial Board occurring through death or other reason, the Nominating Committee, for each such vacancy to be filled shall make an additional nomination. In this event the nominees elected who receive the greatest number of votes shall serve the longest term of vacancies to be filled. D. Retiring members of the Editorial Board shall not be eligible for renomination until one year after their retirement.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. The Secretary shall be authorized to arrange programs for the scientific sessions at the annual meetings.

ARTICLE IX. *Changes in Constitution and By-Laws*

SECTION 1. Proposed changes in the Constitution and By-Laws must be sent in writing to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be signed by at least three members. The Secretary shall send a printed copy of any proposed change to each member at least two weeks before the next meeting and shall notify all members that they may vote by proxy.

SECTION 2. If at this meeting two-thirds of the votes cast shall favor the proposed change, it shall be made.

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

Founded June 19, 1913; Member of Federation 1942

OFFICERS, 1953–1954

President—THOMAS P. MAGILL, State University of New York, Medical Center, Brooklyn.

Honorary President—ARTHUR F. COCA, Oradell, N. J.

Vice-President—A. M. PAPPENHEIMER, JR., New York University Medical School, New York City.

Secretary-Treasurer—JOHN Y. SUGG, Cornell University Medical College, New York City.

Council—THOMAS P. MAGILL, A. M. PAPPENHEIMER, JR., JOHN Y. SUGG, THOMAS FRANCIS, JR., JULES FREUND, JOHN H. DINGLE, M. W. CHASE, GEOFFREY EDSALL, ex officio.

Editorial Board

Journal of Immunology—GEOFFREY EDSALL, *Editor*, JACQUES J. BRONFENBRENNER, JOHN F. ENDERS, THOMAS FRANCIS, JR., SANFORD B. HOOKER, KARL F. MEYER.

PAST OFFICERS

Presidents—**1913** GERALD B. WEBB. **1915** JAMES W. JOBLING. **1916** RICHARD WEIL. **1917** JOHN A. KOLMER. **1918** WILLIAM H. PARK. **1919** HANS ZINSSER. **1920** RUFUS I. COLE. **1921** FREDERICK P. GAY. **1922** GEORGE W. MCCOY. **1923** H. GIDEON WELLS. **1924** FREDERICK G. NOVY. **1925** WILFRED H. MANWARING. **1926** LUDVIG HEKTOEN. **1927** KARL LANDSTEINER. **1928** EUGENE L. OPIE. **1929** OSWALD T. AVERY. **1930** STANHOPE BAYNE-JONES. **1931** ALPHONSE R. DOCHEZ. **1932** AUGUSTUS B. WADSWORTH. **1933** THOMAS M. RIVERS. **1934** FRANCIS G. BLAKE. **1935** WARFIELD T. LONGCOPE. **1936** SANFORD B. HOOKER. **1937** CARL TENBROECK. **1938** DONALD T. FRASER. **1939** GEORGE P. BERRY. **1940** PAUL R. CANNON. **1941** KARL F. MEYER. **1942–1945** JACQUES J. BRONFENBRENNER. **1945–1947** MICHAEL HEIDELBERGER. **1947** LLOYD D. FELTON. **1948** MICHAEL HEIDELBERGER. **1949** THOMAS FRANCIS, JR. **1950** GEOFFREY EDSALL. **1951** COLIN M. MACLEOD. **1952** JOHN F. ENDERS.

Vice-Presidents—**1913–1915** GEORGE W. ROSS. **1915** GEORGE P. SANBORN. **1916** JOHN A. KOLMER. **1947** MICHAEL HEIDELBERGER. **1948** LLOYD D. FELTON. **1949** MICHAEL HEIDELBERGER. **1950** COLIN M. MACLEOD. **1951** JOHN F. ENDERS. **1952** THOMAS P. MAGILL.

Secretary—**1913–1918** MARTIN J. SYNOTT. **1946–1947** ARTHUR F. COCA.

Treasurer—**1913–1918** WILLARD J. STONE. **1946–1947** A. J. WEIL.

Secretary-Treasurer—**1918–1945** ARTHUR F. COCA. **1948–1950** JULES FREUND. **1951–** JOHN Y. SUGG.

CONSTITUTION

(As revised, 1949)

ARTICLE I. *Name*

This association shall be called THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS.

ARTICLE II. *Object*

The purpose of the Association shall be to advance knowledge of immunology and related disciplines, and to facilitate interchange of ideas and information among investigators in the various fields.

ARTICLE III. *Members*

SECTION 1. The Association shall consist of active members, members emeriti and honorary members.

SECTION 2. Any qualified person engaged in the study of problems related to the purpose of the Association may apply for active membership. Candidates for active membership shall be nominated by two members of the Association on blanks furnished by the Secretary. Applications must be accompanied by letters of recommendation of the sponsors, a curriculum vitae, and a list of reprints of publications. The Council shall determine eligibility and post a list of candidates at the annual meeting. The membership shall elect new members by majority vote.

SECTION 3. Failure to pay dues for three successive years shall annul membership. The Council may reinstate a member if an acceptable explanation is submitted and all indebtedness to the Association is liquidated. Payment of such indebtedness may be waived by unanimous vote of the Council if circumstances justify such action.

SECTION 4. If a two-thirds majority of the Council decides that the best interests of the Association require the expulsion of a member, the Secretary shall notify the affected member in writing of the charges. The Council shall allow a reasonable time for the presentation of his defense before acting. Upon recommendation of a two-thirds majority of the Council, the Secretary shall send a notice of the decision to each active member at least six weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and on a

two-thirds vote of the members present, the member shall be expelled, his assessment for the current year shall be returned, and he shall cease to be a member of the Association.

SECTION 5. An active member of the Association for twenty years upon retirement because of age or disability, may elect to accept the status of member emeritus. As such he shall retain voting privileges but shall be relieved of all financial obligations to the Association and shall not receive the Journal without payment.

SECTION 6. The Council may nominate for honorary membership persons of extraordinary achievement in the field of endeavor of this Association. Election to honorary membership shall follow the same procedure as that for election for office in the Association, and the Secretary, on order of the Council, shall place nominations for honorary membership on the annual ballot.

ARTICLE IV. *Officers*

SECTION 1. The Association shall be governed by a Council, which shall consist of the Officers of the Association and five Councilors, one of whom shall be the Editor-in-Chief of the Journal of Immunology.

SECTION 2. The Officers of the Association shall be a President, a Vice President, a Secretary, and a Treasurer. The duties of the two latter may be performed by one or two individuals as determined by vote of the Association. (See By-Law # 7.)

SECTION 3. The President, the Vice President, the Secretary, and the Treasurer shall be elected at the regular annual meeting of the Association to serve for one year. Only the Secretary and the Treasurer are eligible to serve for successive terms in their respective offices. The term of office shall begin the day after the end of the annual meeting.

SECTION 4. One Councilor shall be elected each year to serve for a term of four years. He may however serve in any other elective office immediately after expiration of his term as Councilor.

SECTION 5. The President shall appoint a Nominating Committee of three (or more) members not currently serving on the Council of the Association and shall designate the Chairman. The Committee shall submit nominations for the offices of President, Vice President, Secretary, Treasurer, and Councilor. They may nominate the member currently serving as Vice President for the office of President, and the Councilor who is serving his fourth year for the office of Vice President. They shall submit the names of three members of the Association as candidates for the office of Councilor for a four-year term. The Nominating Committee shall confer at least three months before the annual meeting and shall transmit its nominations, over the signatures of the majority of the Committee, to the Secretary at least two months before the annual meeting. Other names may be added to the ballot upon petition of at least twenty-five members of the Association to the Secretary at least two months before the annual meeting. The Secretary shall send to each member of the Association, at least six weeks before the annual meeting, a ballot containing the list of all such nominees.

SECTION 6. The members of the Association shall vote on the nominations by secret ballot by mail. All ballots must be in the hands of the Secretary one week before the annual meeting. At the time of the annual meeting the Secretary shall present all the valid sealed ballots received by him to the tellers appointed by the President. A plurality of votes shall be sufficient for election.

SECTION 7. The Vice President shall substitute for the President when necessary. If both the President and Vice President are unable to serve, the senior Councilor shall temporarily assume the duties of President. Should a vacancy occur in the office of Secretary or Treasurer, or Councilor, the Council by a majority vote shall appoint a member to fill the unexpired term until the following election. In the event of a vacancy in the Council, the members shall in the following election choose two Councilors from among six nominees whose names shall be selected by the Nominating Committee and included on the ballot as above. Moreover, in this event the terms of the four Councilors shall be adjusted so as to provide an orderly progression within the general sense of the Constitution.

ARTICLE V. *Meetings*

SECTION 1. A regular meeting of the Association shall be held annually at such time and place as the Council shall determine. Regular meetings shall be open to all members of the Association. The members present at the annual meeting of the Association shall constitute a quorum.

SECTION 2. A meeting of the Council shall be held prior to the annual business meeting of the Association. A quorum of the Council for this meeting shall be five.

SECTION 3. In case of equal division of votes, the President shall cast the decisive ballot.

SECTION 4. Minutes of the annual meeting of the Council and of the annual business meeting of the Association shall be published in the form of a news-letter and be distributed only to members of the Association. The annual report of the Treasurer shall be included in this news-letter.

ARTICLE VI. *Business*

SECTION 1. The fiscal year of the Association shall begin March first.

SECTION 2. Annual dues, upon recommendation of the Council, shall be determined by a majority vote at the annual meeting of the Association.

Article VII. *Publication*

Section 1. The Journal of Immunology, which is the property and official organ of this Association, shall be administered for the Association by an Editorial Board.

Section 2. An Editor-in-Chief shall be elected from the membership by a majority vote of the Council to serve for four years. His term of office shall be subject to renewal. He shall appoint with the consent of the Council an Editorial Board of four to six members to serve for four years. The Editor-in-Chief and the members of the Editorial Board shall be responsible for the editorial conduct of the Journal.

Section 3. The Editor-in-Chief shall, with the consent of the Council, appoint from the active members Associate Editors as needed. These Associate Editors are to be chosen because of their ability in specialized fields.

Section 4. The Editor-in-Chief shall make a report of his stewardship of the Journal at the annual meeting and in this report shall summarize the editorial situation and all matters dealing with finances. He shall submit to the Council statements relating to the number of manuscripts received, rejected, accepted, and published during the year; changes in editorial personnel of editors; a complete summary of circulation and of finances and of any other information which the Editorial Board may feel to be pertinent or which may be required by the Council.

Article VIII. *Amendments*

Section 1. Proposed changes in the Constitution shall be submitted by at least five members in writing through the Secretary to the President. The President shall then appoint a committee of at least three members which shall communicate its recommendations to the President for consideration by the Council. The Council shall then advise the Secretary to submit the recommendations of the committee to the membership of the Association for approval with the annual ballot. A change in the Constitution shall require a two-thirds majority of the votes cast by the members at the annual meeting and shall require confirmation by a majority in a mail vote in which at least 50% shall have participated.

Section 2. As an alternative procedure a proposed change in the Constitution may be submitted directly to the Council by petition of one-tenth of the total active membership. Under this circumstance the Council is required to arrange for a vote by the members as heretofore described.

Section 3. Proposed changes in By-Laws may be adopted by two-thirds vote of members present at the annual meeting.

BY-LAWS

1. The Past Presidents shall have the right of attending, without vote, the meetings of the Council.

2. The President may appoint a Past President or a Past Councilor as pro tempore Councilor at any stated meeting of the Council at which a quorum is not present.

3. The Council may transact and vote by mail on such business as cannot be conveniently transacted at meetings.

4. The Secretary shall arrange the program for the scientific meetings, with the advice of the other officers of the Association. Any member in good standing shall have the right to submit a paper. The privilege of presentation may be extended to non-members upon recommendation of active members. Papers intended for presentation at the meetings shall conform to the standards of the Journal of Immunology. In case of doubt, the Secretary shall have the right to submit papers to the scrutiny of three or more members of the Editorial Board of the Journal of Immunology whose decision shall be final.

5. Each member who signifies his intention of reading a paper at any session may specify the length of time which its presentation shall require. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper. The time allotted shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary.

6. If by force of circumstances it should be impossible to hold the annual meeting, the election of Officers and Council may be carried out entirely by mail.

7. The offices of Secretary and Treasurer are combined and shall be held by one person.

8. Official or invited addresses presented at the annual meeting shall be given immediate priority in publication, unless the Editor-in-Chief shall be otherwise instructed by majority vote of the Council.

9. Dues are payable on or before January 1st and subscriptions to the Journal will be lapsed if not paid by this date.

10. If the Editor-in-Chief is unable to attend the stated meeting of the Council, he may designate an alternate from the membership of the Editorial Board.

ALPHABETICAL LIST OF MEMBERS OF THE SIX SOCIETIES

(1) The American Physiological Society
(2) American Society of Biological Chemists
(3) The American Society for Pharmacology and Experimental Therapeutics
(4) The American Society for Experimental Pathology
(5) The American Institute of Nutrition
(6) The American Association of Immunologists

Number and year in parentheses following each name indicate Society affiliation and year of election
H signifies honorary member; R signifies retired status

Abbott, Lynn D., Jr., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

Abood, Leo G., Ph.D. Univ. of Illinois, College of Medicine, Dept. of Psychiatry, Chicago. *Asst. Prof. of Biochemistry and Neurophysiology* (**1**, 1951)

Abrams, Richard, Ph.D. Montefiore Hospital, Inst. of Research, Fifth Ave. at Darragh, Pittsburgh 13, Pa. *Assoc. Dir.* (**2**, 1953)

Abramson, David I., M.D. Univ. of Illinois, Dept. of Medicine, Chicago 12. *Asst. Clin. Prof.; Attending Physician, Hines Veterans Hospital.* (**1**, 1937)

Abramson, Harold A., M.D. Mt. Sinai Hospital, New York City. *Chief, Allergy Clinic; Asst. Prof. of Physiology, Columbia Univ. College of Physicians and Surgeons.* (**1**, 1930; **2**, 1934)

Abreu, Benedict E., Ph.D., M.D. Pitman-Moore Co., Indianapolis, Ind. *Assoc. Research Dir.* (**3**, 1941)

Acheson, George H., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Pharmacology.* (**1**, 1942; **3**, 1945)

Ackermann, W. Wilbur, Ph.D. 116 N. State St., Ann Arbor, Mich. *Asst. Prof. of Epidemiology, Univ. of Mich.* (**2**, 1952; **6**, 1953)

Adams, Georgian, M.A., D.Sc. U.S. Dept. of Agriculture, Washington 25, D. C. *Sr. Exper. Station Admin.* (**5**, 1946)

Adams, John M., M.D., Ph.D. Univ. of California, 405 Hilgard Ave., Los Angeles 24. *Prof. of Pediatrics.* (**4**, 1947)

Adams, Mark, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Microbiology.* (**6**, 1951)

Adams, Mildred, Ph.D. Agricultural Research Center, Bureau of Human Nutrition and Home Economics, Beltsville, Md. *Biochemist.* (**2**, 1934)

Adams, R. Charles, C.M., M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. of Anesthesiology, Mayo Foundation; Consultant, Mayo Clinic, Section on Anesthesia.* (**3**, 1942)

Adams, W. Lloyd, M.D., Ph.D. 900 First Natl. Bank Bldg., Lexington 6, Ky. *Practicing Ophthalmologist.* (**3**, 1942)

Adams, Wright R., M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Assoc. Prof. of Medicine.* (**1**, 1946)

Addison, William H., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. Emeritus of Histology and Embryology.* (**1R**, 1928)

Ades, Harlow Whiting, Ph.D. Emory Univ., Atlanta, Ga. *Prof. and Chairman, Dept. of Anatomy.* (**1**, 1953)

Adler, Frank L., Ph.D. Peter Bent Brigham Hospital, 721 Huntington Ave., Boston, Mass. *Research Assoc.* (**6**, 1953)

Adler, Harry F., Ph.D., M.D. 274 W. Ware Blvd., San Antonio, Tex. *Dir. of Medicine, USAF School of Aviation Medicine.* (**1**, 1943)

Adolph, Edward Frederick, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology.* (**1**, 1921)

Adolph, William H., Ph.D. American Univ., School of Medicine, Beirut, Lebanon. *Prof. of Nutrition.* (**2**, 1946; **5**, 1934)

Adrian, E. D. Cambridge Univ., Dept. of Physiology, Cambridge, England. (**1H**, 1946)

Ahlquist, Raymond P., Ph.D. Med. College of Georgia, Augusta. *Prof. and Chairman of Dept. of Pharmacology.* (**1**, 1952; **3**, 1945)

Ainslie, John D., M.D. U. S. Public Health Service Hospital, Fort Worth 1, Texas. *Sr. Asst. Surgeon.* (**6**, 1951)

Ajazzi-Mancini, Mario, M.D. Univ. of Firenze, Dept. of Pharmacology, Viale G. B. Morgagni 65, Firenze, Italy. *Dir. of Pharmacology.* (**3**, 1951)

Albanese, Anthony A., Ph.D. St. Luke's Convalescent Hospital, Nutritional Research Lab., King St., Greenwich, Conn. *Chief of Nutritional Research.* (**2**, 1944)

Albaum, Harry G., Ph.D. Brooklyn College, Bedford Ave. and Ave. H, Brooklyn, N. Y. *Prof. of Biology.* (**2**, 1947)

Albert, A., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head, Endocrinology Lab.* (**1**, 1947)

Albritton, Errett C., M.D. George Washington Univ. Med. School, 1339 H St., N.W., Washington, D. C. *Fry Prof. of Physiology.* (**1,** 1933)

Alden, Roland H., Ph.D. Univ. of Tennessee, College of Medicine, Memphis 3. *Prof. and Head, Dept. of Microscopic Anatomy.* (**1,** 1949)

Alderton, Gordon, M.S. U. S. Dept of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Chemist.* (**2,** 1952)

Alexander, Benjamin, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assoc. Dir. of Med. Service; Assoc. Prof. of Medicine, Harvard Med. School.* (**2,** 1951)

Alexander, Robert S., Ph.D. Dept. of Physiology, Med. College of Georgia, Augusta. *Assoc. Prof.* (**1,** 1946)

Alfin-Slater, Roslyn B., Ph.D. Univ. of Southern California, School of Medicine, Dept. of Biochemistry and Nutrition, Los Angeles 7. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Alfredson, Bernard V., D.V.M., M.S. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Prof. and Head of Dep.* (**1,** 1951)

Algire, Glenn H., M.D. Natl. Cancer Inst., Bethesda, Md. *Sr. Surgeon, USPHS.* (**4,** 1945)

Allan, Frank N., M.D. Lahey Clinic, 605 Commonwealth Ave., Boston, Mass. *Exec. Dir. of the Med. Dept.* (**4,** 1930)

Allen, Charles Robert, Ph.D., M.D. Univ. of Texas School of Medicine, Galveston. *Prof. and Chairman, Dept. of Anesthesiology.* (**1,** 1943)

Allen, Frank W., Ph.D. Univ. of California, 1557 Life Science Building, Berkeley. *Prof. of Physiological Chemistry.* (**2,** 1947)

Allen, Frederick M., M.D. 1031 Fifth Ave., New York City. (**1R,** 1924; **4,** prior to 1920)

Allen, J. Garrott, M.D. Univ. of Chicago, Univ. Clinics, Chicago, Ill. *Instr. in Surgery.* (**1,** 1943)

Allen, Lane, Ph.D., M.D. Med. College of Georgia, Univ. Place, Augusta. *Assoc. Prof. of Anatomy.* (**1,** 1939)

Allen, Shannon C., Ph.D. Galesburg State Research Hospital, Galesburg, Ill. *Chief, Dept. of Physiology.* (**1,** 1945)

Allen, Thomas H., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Asst. Prof.* (**1,** 1947)

Allen, Willard M., M.D. Washington Univ. School of Medicine, 630 S. Kingshighway, St. Louis, Mo. *Prof. of Obstetrics and Gynecology.* (**1,** 1934)

Alles, Gordon A., Ph.D. 770 S. Arroyo Parkway, Pasadena, Calif. *Lecturer in Pharmacology, Univ. of California Med. School, and Research Assoc. in Biology, California Inst. of Technology.* (**1,** 1932; **3,** 1941)

Alling, Eric L., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. in Medicine; Assoc. in Radiology.* (**4,** 1947)

Allison, James B., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Physiology and Biochemistry; Dir. of Bureau of Biological Research.* (**2,** 1946; **5,** 1949)

Almquist, Herman J., Ph.D., D.Sc. The Grange Co., Modesto, Calif. *Dir. of Research and Vice-Pres.* (**2,** 1937; **5,** 1937)

Altland, Paul D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1,** 1950)

Altschul, Aaron M., Ph.D. Southern Regional Research Lab., USDA, 2100 R. E. Lee Blvd., New Orleans, 19, La. *Head, Oilseed Div.* (**2,** 1949)

Alvarez, Walter C., M.D. 700 N. Michigan Ave., Chicago 11, Ill. (**1R,** 1917; **3R,** 1921)

Alving, Alf Sven, M.D. Billings Hospital, Univ. of Chicago, 950 E. 59th St., Chicago, Ill. *Assoc. Prof. of Medicine.* (**1,** 1939)

Amassian, Vahe Eugene, M.B., B.Ch. Univ. of Washington School of Medicine, Seattle 5. *Asst. Prof. of Physiology and Biophysics.* (**1,** 1953)

Amberg, Samuel, M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. Emeritus of Pediatrics, Mayo Foundation.* (**1R,** 1903; **2R,** 1906; **3R,** 1909)

Amberson, William R., Ph.D. Univ. of Maryland School of Medicine, Baltimore. *Prof. of Physiology.* (**1,** 1924)

Ambrose, Anthony M., Ph.D. Western Regional Research Lab., U.S.D.A. Bureau of Agricultural and Industrial Chemistry, 800 Buchanan St., Albany, Calif. *Sr. Pharmacologist.* (**3,** 1937)

Ambrus, Clara M., M.D. Philadelphia College of Pharmacy and Science, 43rd St. and Woodland Ave., Philadelphia 4, Pa. *Assoc. Prof. of Pharmacology.* (**3,** 1953)

Ambrus, Julian L., M.D. Philadelphia College of Pharmacy and Science, 43rd St. and Woodland Ave., Philadelphia 4, Pa. *Prof. of Pharmacology.* (**3,** 1953)

Ames, Stanley R., Ph.D. Distillation Products Ind., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Sr. Research Chemist.* (**2,** 1948)

Amoss, Harold L., M.D., D.P.H., Sc.D. 68 Deerfield Drive, Greenwich, Conn. (**4,** 1922; **6,** 1917)

Anchel, Marjorie, Ph.D. New York Botanical Garden, Bronx Park, New York City 58 (Fordham P.O.). *Research Assoc.* (**2,** 1951)

Andersch, Marie A., Ph.D. Univ. Hospital, Baltimore, Md. *Asst. Dir. of Lab.* (**2,** 1940)

Andersen, Dorothy H., M.D. Babies Hospital, Broadway and 167th St., New York City. *Asst. Prof. of Pathology, Columbia Univ.* (**4,** 1935)

Anderson, Carl E., Ph.D. Univ. of North Carolina, School of Medicine, Dept. of Biological Chemistry, Chapel Hill. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Anderson, Evelyn, M.D. Ph.D. Natl. Insts. of

Health, Bethesda 14, Md. *Chief, Section of Endocrinology.* (1, 1934)

Anderson, Hamilton H., M.D. Univ. of California School of Medicine, Div. of Pharmacology & Experimental Therapeutics, San Francisco 22. *Chairman.* (3, 1931)

Anderson, Joseph T., Ph.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Minneapolis 14. *Assoc. Prof.* (5, 1952)

Anderson, Laurens, Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Asst. Prof. of Biochemistry.* (2, 1953)

Anderson, Oscar Daniel, Ph.D. Adelphi College, Dept. of Psychology, Garden City, N. Y. (1, 1939)

Anderson, Rubert S., Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. (1, 1948)

Anderson, Rudolph J., Ph.D. Sterling Lab., Yale Univ., New Haven, Conn. *Prof. of Chemistry.* (2, 1915)

Anderson, W. A. D., M.D. Univ. of Miami School of Medicine, Coral Gables 34, Fla. *Prof. of Pathology.* (4, 1941)

Anderson, William E., M.A. Eastern State Farmers' Exchange, Westbrook Farm, Rockville, Conn. *Biochemist.* (2R, 1931; 5, 1933)

Andervont, H. B., D.Sc. Natl. Cancer Inst., Bethesda, Md. *Chief, Lab. of Biology.* (4,1939)

Andrews, James C., Ph.D. School of Medicine, Univ. of North Carolina, Chapel Hill. *Head of Dept. and Prof. of Biological Chemistry and Nutrition.* (2, 1925)

Andrus, E. Cowles, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Asst. Visiting Physician; Assoc. Prof. of Medicine, Johns Hopkins Univ.* (1, 1925)

Anfinsen, Christian B., Jr., Ph.D. Natl. Heart Inst., Bethesda 14, Md. *Chief, Section of Cellular Physiology.* (2, 1946)

Angerer, Clifford, Ph.D. Ohio State Univ., Columbus. *Assoc. Prof. of Physiology.* (1, 1943)

Angevine, D. Murray, M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Pathology.* (4, 1940)

Anker, H. S., M.D., Ph.D. Univ. of Chicago, Dept. of Biochemistry, 947 E. 58th St., Chicago 37, Ill. *Research Assoc. and Asst. Prof.* (2, 1949)

Annegers, John H., Ph.D., M.D. Northwestern Univ. Med. School, Dept. of Physiology, 313 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Physiology.* (1, 1949)

Ansbacher, Stefan, D.Sc. Jocinah Farms, R.R. 1., Marion, Ind. *Scientific and Med. Consultant.* (2, 1939)

Anslow, W. Parker, Jr., Ph.D. Univ. of Virginia, Dept. of Medicine, Physiological Labs., Charlottesville. *Prof. of Physiology and Chairman of School of Physiology.* (2, 1948)

Anson, Mortimer L., Ph.D. Lever Bros. Research Center, Edgewater, N. J. *Asst. Research Dir.* (2, 1937)

Antopol, William, M.D. Beth Israel Hospital, 10 Livingstone Pl., New York City 3. *Dir., Research, Joseph H. Levy Fndn.* (4, 1953)

Apperly, Frank L., D.Sc., M.D. Med. College of Virginia, Richmond. *Prof. of Pathology.* (4, 1936)

Aptekman, Paul Myron, Ph.D. The Wistar Inst., 36th and Woodland Ave., Philadelphia 4, Pa. *Curator of the Museum; Fellow in Chemistry.* (6, 1953)

Archibald, Reginald M., Ph.D., M.D. Rockefeller Inst. Hospital, 66th St. and York Ave., New York City 21. *Member, Rockefeller Inst. for Med. Research.* (2, 1947)

Arkin, Aaron, M.D., Ph.D. Suite 2006, 25 E. Washington St., Chicago, Ill. *Rush Prof. of Medicine, Univ. of Illinois; Prof. and Chairman of Dept. of Medicine, Cook County Grad. School.* (1, 1914; 3, 1919)

Armstrong, Harry G., M.D. Headquarters U.S. Air Force, Washington 25, D.C. *Surgeon General.* (1, 1948)

Armstrong, Marvin D., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Assoc. Research Prof., Dept. of Biochemistry.* (2, 1951)

Armstrong, Philip B., M.D. State Univ. of N. Y. College of Medicine, Syracuse 10, N.Y. *Prof. of Anatomy.* (1, 1945)

Armstrong, W. D., M.D., Ph.D. Univ. of Minnesota, 17 Owre Hall, Minneapolis 14. *Prof. and Head of Physiological Chemistry.* (2, 1938)

Arnold, Aaron, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head of Nutritional Research Lab.* (5, 1947)

Arnold, Lloyd, A.M., M.D. 1538 E. 57th St., Chicago, Ill. (4, 1930; 6, 1925)

Arnow, L. Earle, Ph.D., M.D. Sharp & Dohme, Div. of Merck & Co., Inc., West Point, Pa. *Vice Pres. and Dir. of Research.* (2, 1940)

Aronson, Joseph D., M.D. The Henry Phipps Inst., Univ. of Pennsylvania, Philadelphia. *Prof. of Bacteriology* (4, 1927; 6, 1925)

Artom, Camillo, M.D., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem, N. C. *Prof. of Biochemistry.* (2, 1944)

Ascham, Leah, Ph.D. Kansas State College, Manhattan. *Prof. in School of Home Economics.* (5, 1935)

Asenjo, Conrado F., Ph.D. Univ. of Puerto Rico, School of Medicine, San Juan 22. *Prof. and Head, Dept. of Biochemistry and Nutrition.* (2, 1944; 5, 1951)

Ashby, Winifred M., Ph.D. 305 10th St., N.E., Washington, D. C. (6, 1923)

Ashman, Richard, Ph.D. 5902 Marshall Foch St., New Orleans, La. *Prof. of Physiology, Louisiana State Univ.* (1, 1925)

Astwood, Edwin Bennett, M.D., Ph.D. New England Center Hospital, Boston 11, Mass. (**1,** 1939)

Atkin, Lawrence, Ph.D. The Fleischmann Labs., Betts Ave., Stamford, Conn. *Asst. to Vice-Pres., Research and Development, Standards Brands, Inc.* (**2,** 1946; **5,** 1946)

Aub, Joseph C., M.D. Massachusetts General Hospital, Fruit St., Boston 14. *Prof. of Research Medicine, Harvard Med. School.* (**1,** 1919; **5,** 1933)

Auerbach, Stewart H. Thayer Veterans Administration Hospital, Nashville, Tenn. *Chief, Lab. Service.* (**4,** 1953)

Avery, O. T., M.D., Sc.D. Hoods Hill Rd., Nashville, Tenn. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4,** 1921; **6R,** 1920)

Aviado, Domingo M., Jr., M.D. Univ. of Pennsylvania Med. School, Dept. of Pharmacology, Philadelphia. *Asst. Prof. Pharmacology* (**1,** 1951; **3,** 1950)

Awapara, Jorge, Ph.D. 1204 Bartlett St., Houston, Tex. *Assoc. Biochemist, Univ. of Texas, M. D. Anderson Hospital.* (**2,** 1951)

Axelrod, Abe E., Ph.D. Western Reserve Univ., Inst. of Pathology, 2085 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry.* (**2,** 1950; **5,** 1949)

Axelrod, Bernard, Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Biochemist, Enzyme Section.* (**2,** 1948)

Axelrod, Julius, M.S. Natl. Heart Inst., Bethesda 14, Md. *Sr. Biochemist.* (**3,** 1953)

Axtmayer, Joseph H., Ph.D. Univ. of Puerto Rico, Rio Piedras. *Prof. of Chemistry; Dir. Inst. of Nutrition.* (**5,** 1935)

Bacchus, Habeeb, Ph.D. George Washington Univ., School of Medicine, Dept. of Physiology, Washington, D. C. *Research Assoc.* (**1,** 1952)

Bach, L. M. N., Ph.D. Tulane Univ. School of Medicine, New Orleans, La. *Prof. of Physiology; Exec. Dir., Survey of Physiological Sciences, 2101 Constitution Ave., Washington 25, D. C.* (**1,** 1948)

Bachem, Albert, Ph.D. Univ. of Illinois College of Medicine, Chicago 12. *Prof. of Biophysics.* (**1,** 1933)

Bacher, James E., Ph.D. 6474 Benvenue Ave., Oakland 9, Calif. *Asst. Research Biochemist, College of Pharmacy, Univ. of California Med. Center, San Francisco 22.* (**2,** 1953)

Bachman, Carl, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. and Dir. of Obstetrics and Gynecology.* (**2,** 1941)

Bachmann, George, M.D. Georgian Clinic, Georgia Commissinn on Alcoholism, 1260 Briarcliff Rd., N.E., Atlanta. *Physician in Charge.* (**1R,** 1912)

Bachrach, William H., M.D., Ph.D. Univ. of Southern California School of Medicine, Dept. of Physiology, Los Angeles 7. *Research Assoc.* (**1,** 1949)

Baer, Erich, Ph.D. Banting Inst., Banting and Best Dept. of Med. Research, 100 College St., Toronto, Ont., Canada. *Prof.* (**2,** 1942)

Baernstein, Harry D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Biochemist.* (**2,** 1934)

Baetjer, Anna M., D.Sc. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Environmental Medicine.* (**1,** 1929)

Baez, Silvio, M.D. Cornell Medical Center, 525 E. 68th St., New York City 32. *Research Assoc.* (**1,** 1950)

Bahrs, Alice M., Ph.D. 2735 Orchard St., Corvallis, Ore. (**1,** 1933)

Bailey, Cameron Vernon, C.M., M.D. New York Univ. and Hospital, 303 E. 20th St., New York City. *Clin. Prof. of Medicine.* (**2R,** 1920; **5R,** 1933)

Bailey, Orville T., M.D. Larue D. Carter Mem. Hospital, 1315 W. 10th St., Indianapolis 7, Ind. *Prof. of Neuropathology, Indiana Univ. Med. School.* (**4,** 1939)

Bailey, Percival, M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Prof. of Neurology.* (**1,** 1941)

Bain, James A., Ph.D. Univ. of Illinois College of Medicine, Dept. of Pharmacology, 1853 W. Polk St., Chicago 12. *Assoc. Prof.* (**3,** 1951)

Baitsell, George Alfred, Ph.D. Yale Univ., Osborn Zoological Lab., 165 Prospect St., New Haven, Conn. *Emeritus Prof. of Biology.* (**1R,** 1915)

Baker, A. B., M.D. Univ. of Minnesota Hospital, 19 Millard Hall, Minneapolis. *Dir. and Prof. of Neurology and Neuropathology.* (**4,** 1940)

Baker, Burton L., Ph.D. Univ. of Michigan, Dept. of Anatomy, Ann Arbor. *Professor.* (**1,** 1951)

Baker, Edgar E., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Microbiology.* (**6,** 1950)

Baker, James A., D.V.M., Ph.D. Cornell Univ., New York State Veterinary College, Ithaca. *Prof. of Bacteriology.* (**4,** 1947)

Baker, Roger D., M.D. 303 Swift Ave., Durham, N. C. *Chief, Lab. Service, Durham VA Hospital.* (**4,** 1939)

Baldes, Edward J., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Biophysics, Mayo Fndn., Grad. School, Univ. of Minnesota; Chairman, Sec. on Biophysics & Biophysical Research, Mayo Clinic.* (**1,** 1933)

Bale, William F., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Radiation Biology.* (**1,** 1943)

Balis, M. Earl, Ph.D. 450 Spruce Lane, East

Meadow, N. Y. *Asst. Member, Sloan-Kettering Inst.* (**2**, 1953)

Ball, Eric G., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Prof. of Biological Chemistry.* (**2**, 1934)

Ball, Howard A., M.D. 233 A St., San Diego, Calif. *Pathologist, Paradise Valley and Palomar Memorial Hospitals.* (**4**, 1947)

Balls, Arnold Kent, Ph.D. Purdue Univ., Dept. of Agricultural Chemistry, Lafayette, Ind. *Prof. of Enzyme Chemistry.* (**2**, 1932)

Bang, Frederik B., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. in Medicine.* (**4**, 1947; **6**, 1953)

Banus, Mario Garcia, D.Sc. Bright Meadows, Chestertown, Md. (**1**, 1927)

Bard, Philip, Ph.D., Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore, Md. *Prof. and Dir. of Dept. of Physiology; Dean of Med. Faculty.* (**1**, 1929)

Barger, A. Clifford, M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *Asst. Prof.* (**1**, 1950)

Barker, H. A., Ph.D. Univ. of California, 3048 Life Sciences Bldg., Berkeley 4. *Prof. of Plant Biochemistry.* (**2**, 1946)

Barker, S. B., Ph.D. Med. College of Alabama, Birmingham 5. *Prof. of Pharmacology.* (**1**, 1938)

Barlow, O. W., M.D., Ph.D. 3 Warwick Rd., Winchester, N. H. (**3**, 1944)

Barnard, John W., Ph.D. Dept. of Electrical Engineering Research, Univ. of Illinois, Urbana. *Research Prof.* (**1**, 1953)

Barnes, B. O., M.D., Ph.D. 1160 S. Colorado Blvd., Denver 20, Colo. (**1**, 1932)

Barnes, Frederick W., Jr., M.D., Ph.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Medicine and of Physiological Chemistry, Johns Hopkins Univ. School of Medicine.* (**2**, 1953)

Barnes, LaVerne A., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14, Md. *Head, Bacteriology Facility.* (**6**, 1931)

Barnes, Richard Henry, Ph.D. Sharp & Dohme, West Point, Pa. *Assoc. Dir. of Research.* (**2**, 1941; **5**, 1944)

Barnes, Thomas C., D.Sc. Hahnemann Med. College and Hosp. of Philadelphia, Philadelphia, Pa. *Assoc. Prof. of Pharmacology; Electroencephalographer of Hahnemann Hospital.* (**1**, 1942; **3**, 1948)

Barnett, Henry L., M.D. Cornell Univ. Med. College, New York City 21. *Assoc. Prof. of Pediatrics.* (**1**, 1952)

Barnum, Cyrus P., Jr., Ph.D. Univ. of Minnesota, 212 Millard Hall, Minneapolis 14. *Assoc. Prof. of Physiological Chemistry.* (**2**, 1946)

Barott, Herbert G., E.E. U. S. Dept. of Agriculture, Natl. Agricultural Research Center, Beltsville, Md. *Biophysicist, Animal Nutrition Div., Bur. of Animal Industry.* (**5R**, 1938)

Barron, Donald H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Physiology.* (**1**, 1943)

Barron, E. S. Guzman, M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Prof. of Biochemistry* (**2**, 1931)

Bartlett, Grant R., Ph.D. Scripps Metabolic Clinic, La Jolla, Calif. *Research Assoc.* (**2**, 1951)

Bartlett, Paul D., Ph.D. Edsel B. Ford Inst. for Med. Research, Henry Ford Hospital, Detroit 2, Mich. *Sr. Assoc. in Biochemistry.* (**2**, 1950)

Bartley, S. Howard, Ph.D. 242 N. Harrison Rd., East Lansing, Mich. *Prof. of Psychology, Michigan State College.* (**1**, 1935)

Basinski, Daniel H., Ph.D. Dept. of Laboratories, Henry Ford Hopital, Detroit 2, Michigan. *Assoc. Chemist.* (**2**, 1953)

Bass, Allan D., M.D. Vanderbilt Univ., School of Medicine, Nashville, Tenn. *Prof. of Pharmacology; Head of Department.* (**3**, 1944)

Batchelder, Esther L., Ph.D. 8 Devon Rd., Silver Spring, Md. *Head of Food and Nutrition Div., Bureau of Human Nutrition and Home Economics.* (**5**, 1933)

Bateman, John B., Ph.D. Camp Detrick, Frederick, Md. *Special Asst. in Biophysics.* (**1**, 1945)

Bates, Robert W., Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Hormone Chemist.* (**2**, 1936)

Batson, Herbert C., Ph.D. Illinois Dept. of Public Health, Div. of Labs., 1800 W. Fillmore St., Chicago 12. *Prof. of Biostatistics, Univ. of Ill. College of Medicine, Dept. of Public Health.* (**6**, 1949)

Batterman, Robert C., M.D. New York Medical College, 905 Fifth Ave., New York City. *Asst. Prof. of Medicine.* (**3**, 1941)

Bauer, J. H., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 20. (**4**, 1935)

Bauer, Walter, M.D. Massachusetts General Hospital, Boston. *Chief, Med. Services, Mass. Gen. Hospital; Jackson Prof. of Clin. Medicine, Harvard Med. School.* (**1**, 1929)

Bauernfeind, J. C., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Chief of Applied Nutrition.* (**5**, 1947)

Bauman, Louis, M.D. Columbia Presbyterian Med. Center, 180 Fort Washington Ave. New York City 32. *Asst. Prof. of Clin. Medicine (retired), Columbia Univ.* (**2R**, 1912)

Baumann, Carl A., Ph.D. Univ. of Wisconsin, Biochemistry Dept., Madison. *Prof. of Biochemistry.* (**2**, 1938; **5**, 1938)

Baumann, Emil J., Ph.D. 7 Church Lane, Scarsdale, N. Y. *Chemist, Montefiore Hospital.* (**2**, 1922)

Baumberger, J. Percy, Sc.D. Physiology Dept., Stanford Univ., Stanford, Calif. *Prof. of Physiology.* (**1,** 1921)

Baxter, James H., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda, Md. *Unit Chief, Section on Metabolism.* (**3,** 1948)

Bayne-Jones, Stanhope, M.D. Army Medical Research and Development Bd., Office of the Surgeon Gen., Dept. of the Army, Washington 25, D. C. (**4,** 1927; **6,** 1917)

Beach, Eliot F., Ph.D. Metropolitan Life Insurance Co., 1 Madison Ave., New York City 10. *Dir., Biochemical Lab.* (**2,** 1941; **5,** 1942)

Beadle, Buell W., Ph.D. 702-A, Lexington, USNOTS, China Lake, Calif. *Head, Tech. Div., Cmdr's. Staff.* (**2,** 1947)

Bean, John W., Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1932)

Beard, Howard H., Ph.D. Terrell's Labs. of Clin. Medicine, Med. Arts Bldg. Rm 24, Fort Worth, Tex. *Chief Chemist.* (**2,** 1928)

Beard, Joseph W., M.D. Duke Hospital, Durham, N. C. *Prof. of Surgery; Assoc. Prof. of Virology.* (**4,** 1938; **6,** 1940)

Beatty, Clarissa H., Ph.D. Univ. of Oregon Med. School, Portland. *Instructor.* (**1,** 1949)

Beazell, J. M., Ph.D., M.D. 1027 So. Tejon, Colorado Springs, Colo. (**1,** 1939)

Beck, Claude S., M.D. Lakeside Hospital, Cleveland, Ohio. *Prof. of Cardiovascular Surgery, Western Reserve Univ.; Assoc. Surgeon, Lakeside Hospital.* (**4,** 1930)

Beck, Ivan Thomas, M.D. McGill Univ., Dept. of Pharmacology, Montreal, Canada. *Lecturer.* (**3,** 1951)

Beck, Lyle V., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Physiology and Pharmacology, Pittsburgh 13, Pa. (**1,** 1941)

Becker, Elery R., D.Sc. Iowa State College, Dept. of Zoology and Entomology, Ames. *Prof.* (**6,** 1951)

Becker, Elmer L., Ph.D. M.D. Army Med. Service Grad. School, Immunology Div., Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Exper. Immunology.* (**6,** 1952)

Becker, R. Frederick, Ph.D. Duke Univ. Med. School, Dept. of Anatomy, Durham, N. C. *Assoc. Prof.* (**1,** 1949)

Beckman, Harry, M.D. Marquette Univ. School of Medicine, Milwaukee, Wis. *Dir. of Dept. of Pharmacology.* (**3,** 1937)

Beecher, Henry K., M.D. Massachusetts General Hospital, Boston. *Anesthetist-in-Chief; Dorr Prof. of Research in Anesthesia, Harvard Med. School.* (**1,** 1951; **3,** 1940)

Beerstecher, Ernest, Jr., Ph.D. Univ. of Texas, School of Dentistry, P. O. Box 8277, Houston. *Asst. Prof. of Biochemistry.* (**2,** 1950)

Beeson, W. M., Ph.D. Purdue Univ., Dept. of Animal Husbandry, Lafayette, Ind. *Professor.* (**5,** 1952)

Behnke, Albert R., M.D. Staff, Comsublant, New London, Conn. *Capt., MC, USN.* (**1,** 1946)

Behre, Jeanette Allen, Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Associate.* (**2,** 1925)

Behrens, Otto K., Ph.D. Lilly Research Labs., Eli Lilly and Co., Indianapolis 6, Ind. *Dir., Div. of Biochemistry.* (**2,** 1949)

Behrmann, Vivian G., Ph.D. Henry Ford Hospital, 2799 W. Grand Blvd., Detroit 2, Mich. *Research Physiologist.* (**1,** 1948)

Beinert, Helmut, Dr. Rer. Nat. Inst. for Enzyme Research, Univ. of Wisconsin, 1702 University Ave., Madison 5. *Asst. Prof.* (**2,** 1953)

Beiser, Sam M., Ph.D. 76–28 Springfield Blvd., Bayside 64, N. Y. *Assoc. in Microbiology, Columbia Univ.* (**6,** 1953)

Belding, David L., M.D. Boston Univ. School of Medicine, Boston, Mass. *Prof. Emeritus of Bacteriology and Exper. Pathology.* (**4,** 1927)

Belding, Harwood S., Ph.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Occupational Health, Pittsburgh 13, Pa. *Prof. of Environmental Physiology.* (**1,** 1945)

Belkin, Morris, Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Pharmacologist.* (**3,** 1949)

Bell, E. T., M.D. 110 Anatomy Bldg., Univ. of Minnesota, Minneapolis. *Prof. Emeritus of Pathology.* (**4,** 1931)

Bender, M. B., M.D. New York Univ. College of Medicine, New York City. *Assoc. Prof. of Neurology and Head of Lab. of Exper. Medicine.* (**1,** 1947)

Bendich, Aaron, Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Assoc. in Boichemistry, Sloan-Kettering Inst.* (**2,** 1950)

Benditt, Earl P., M.D. Univ. of Chicago Clinics, Dept. of Pathology, Chicago 37, Ill. *Assoc. Prof.* (**4,** 1947)

Benedict, Francis G., Ph.D., M.D. Machiasport, Maine. (**1R,** 1904; **2R,** 1906)

Benesch, Reinhold, Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Asst. Prof.* (**2,** 1952)

Benham, Olive Ray, B.S. Connecticut State Dept of Health, Bureau of Labs., Hartford. *Chief Serologist.* (**6,** 1944)

Bennett, A. Lawrence, Ph.D., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Physiology and Pharmacology.* (**1,** 1941)

Bennett, Granville A., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Pathology and Head of Dept.* (**4,** 1931)

Bennett, H. Stanley, M.D. Univ. of Washington School of Medicine, Seattle. *Prof. of Anatomy.* (**1,** 1946)

Bennett, Leslie L., M.D., Ph.D. Univ. of California, Berkeley 4. *Prof. of Physiology.* **(1, 1945)**

Bennett, Mary Adelia, Ph.D. Lankenau Hospital Research Inst., 7701 Burholme St., Fox Chase, Philadelphia 11, Pa. *Research Biochemist.* **(2,** 1941)

Bennett, Warren A., M.D. Mayo Clinic, Rochester, Minn. *Asst. Prof. of Pathology, Univ. of Minnesota.* **(4,** 1952)

Benson, Clara C., Ph.D. 160 Dorset St., West, Port Hope, Ontario, Canada. *Prof. Emeritus of Food Chemistry, Univ. of Toronto.* **(2R,** 1906)

Benson, Otis O., Jr., M.D. Office of the Surgeon General, Headquarters, USAF, Washington 25, D. C. *Brig. Gen. USAF (MC); Dir., Med. Staffing and Education.* **(1,** 1951)

Benton, Joseph G., Ph.D., M.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Physical Medicine and Rehabilitation.* **(3,** 1949)

Benzinger, Theodore, M.D., D.Sc. Naval Med. Research Inst., Bethesda 14, Md. *Head, Calorimetry Branch.* **(1,** 1950)

Berg, Benjamin N., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Pathology.* **(4,** 1928)

Berg, Clarence P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Chemistry Bldg., Iowa City. *Prof. of Biochemistry.* **(2,** 1933; **5,** 1936)

Bergeim, Olaf, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biochemistry.* **(1,** 1916; **2R,** 1914)

Berger, Eugene Y., M.D. U.S. Naval Hospital, Oakland, Calif. *Lt. USNR (MC).* **(1,** 1953)

Berger, F. M., M.D. 227 Prospect Ave., Princeton, N. J. *Dir., Wallace Labs., New Brunswick, N. J.* **(3,** 1949)

Bergmann, Werner, Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Prof. of Chemistry.* **(2,** 1934)

Berliner, Robert W., M.D. 4317 Elm St., Chevy Chase 15, Md. *Chief, Lab. of Kidney and Electrolyte Metabolism, Natl. Insts. of Health.* **(1,** 1950)

Bernard, Richard, Ph.D. Laval Univ., Dept. of Biology, Blvd. de l'Entente, Quebec, Canada. *Prof. of Physiology.* **(1,** 1947)

Berne, Robert M., M.D. Western Reserve Univ. Med. School, Dept. of Physiology, Cleveland 6, Ohio. *Asst. Prof.* **(1,** 1951)

Bernfeld, Peter, Ph.D. New England Center Hospital, Boston 11, Mass. *Assoc. Prof. of Biochemistry, Tufts College Med. School.* **(2,** 1952)

Bernheim, Frederick, Ph.D. Box 3109, Duke Univ. Med. School, Durham, N. C. *Prof. of Pharmacology.* **(2,** 1933; **3,** 1935)

Bernheimer, Alan Weyl, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Microbiology.* **(6,** 1951)

Bernthal, Theodore G., M.D. Med. College of the State of South Carolina, Dept. of Physiology, Charleston 16. *Professor.* **(1,** 1932)

Berry, George Packer, M.D. Harvard Med. School, Boston 15, Mass. *Dean and Prof. of Bacteriology.* **(6,** 1934)

Berryman, George H., Ph.D., M.D. Abbott Labs., No. Chicago, Ill. *Assoc., Dept. of Medicine; Clinical Asst. Prof. of Medicine, Univ. of Illinois.* **(1,** 1919)

Bessey, Otto A., Ph.D. Univ. of Texas Med. Branch, Dept. of Biochemistry and Nutrition, Galveston. *Professor.* **(2,** 1938; **5,** 1943)

Best, Charles H., M.D., D.Sc. Univ. of Toronto, Toronto, Ontario, Canada. *Dir. of Banting and Best Dept. of Med. Research and Dept. of Physiology.* **(1,** 1923; **2,** 1923)

Bethell, Frank H., M.D. 409 Lenawee Drive, Ann Arbor, Mich. *Prof. of Internal Medicine and Asst. Dir. of the Thomas Henry Simpson Memorial Inst.* **(4,** 1936)

Bethke, Roland M., Ph.D. Ralston Purina Co., 835 S. 8th St., St. Louis 2, Mo. *Vice Pres. and Dir. of Research.* **(2,** 1928; **5,** 1933)

Beutner, R., Ph.D., M.D. Des Moines Still College of Osteopathy and Surgery, Des Moines, Ia. *Assoc .Prof.* **(1R,** 1924; **3,** 1924)

Bevans, Margaret. Columbia Research Div., Goldwater Memorial Hospital, Welfare Island, New York City. *Asst. Prof. of Pathology, Columbia Univ.* **(4,** 1952)

Beyer, Karl H., Ph.D., M.D. Sharp & Dohme, Inc., Med. Research Div., West Point, Pa. *Asst. Dir of Research.* **(1,** 1942; **3,** 1944)

Bickford, Reginald G., M.D. Mayo Clinic, Section on Physiology, Rochester, Minn. *Head of Lab. of Neurophysiology and Electroencephalography.* **(1,** 1949)

Biddulph, Clyde, Ph.D. Directorate of Flying Safety Research, Med. Safety Div., Office of the Inspector Gen. USAF, Norton Air Force Base, San Bernardino, Calif. *Lt. Col. USAF.* **(1,** 1952)

Bier, Otto, M.D. Instituto Biologico, Caixa Postal 7119, São Paulo, Brazil. *Head, Immunological Dept.* **(6,** 1947)

Bierman, Howard R., M.D. Univ. of California School of Medicine, San Francisco 22. *Assoc. Clin. Prof. of Exper. Oncology.* **(3,** 1950)

Bieter, Raymond N., M.D., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Pharmacology.* **(3,** 1930)

Bills, Charles E., Ph.D. 6403 Murray Hill Rd., Baltimore 12, Md. *Consultant.* **(2,** 1928; **5,** 1935)

Bing, Franklin C., Ph.D. 303 E. Chicago Ave., Chicago, Ill. *Consultant.* **(2,** 1931; **5,** 1934)

Bing, Richard J., M.D. Med. College of Alabama, Birmingham. *Prof. of Experimental Medicine and Clinical Physiology.* **(1,** 1942)

Binkley, Francis, Ph.D. Emory Univ., Dept. of

Biochemistry, Emory University, Ga. *Professor.* (**2,** 1947)

Binkley, Stephen Bennett, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Biochemistry.* (**2,** 1941)

Bird, Francis H., Ph.D. Eastern States Farmers' Exchange, Inc., Westbrook Lab., Rockville, RFD 3, Conn. *Assoc. in Feed Research.* (**5,** 1951)

Bird, Herbert R., Ph.D. Univ. of Wisconsin College of Agriculture, Dept. of Poultry Husbandry, Madison 6. *Professor.* (**5,** 1947)

Bird, Orson D., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Lab. Dir. in Nutritional Research.* (**2,** 1947)

Bird, Robert M., M.D. Univ. Hospital, Dept. of Medicine, Oklahoma City, Okla. *Assoc. Prof.* (**1,** 1950)

Birnbaum, Sanford M., Ph.D. Natl. Cancer Inst., Lab. of Biochemistry, Bethesda 14, Md. *Sr. Asst. Scientist.* (**2,** 1953)

Birnie, James H., Ph.D. Morehouse College, Dept. of Biology, Atlanta, Ga. *Prof. and Chairman of Dept.* (**1,** 1952)

Birren, James E., Ph.D. Natl. Inst. of Mental Health, Besthesda 14, Md. *Research Psychologist.* (**1,** 1950)

Bisbey, Bertha, Ph.D. 1402 Baro Ave., Columbia, Mo. *Prof. of Nutrition, Univ. of Missouri* (**5,** 1933)

Bischoff, Fritz E., Ph.D. Santa Barbara Cottage Hospital, Santa Barbara, Calif. *Dir. of Research.* (**2,** 1928; **5,** 1933)

Bishop, George H., Ph.D. Washington Univ. Med. School, Euclid and Kingshighway, St. Louis, Mo. *Prof. of Neurophysiology.* (**1,** 1923)

Biskind, Gerson R., M.D. 450 Sutter St., San Francisco, Calif. *Chief Pathologist; Dir. of Clinical Lab., Mt. Zion Hospital; Clin. Instr. in Pathology, Univ. of California Med. School.* (**4,** 1944)

Black, Alex, Ph.D. Pennsylvania State College, Dept. of Animal Nutrition, State College. *Prof. of Animal Nutrition.* (**5,** 1947)

Black, Edgar C., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B. C., Canada. *Assoc. Prof. of Physiology.* (**1,** 1943)

Black, Simon, Ph.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chemist.* (**2,** 1948)

Blair, Edgar A., Ph.D. Med. Field Service School, Fort Sam Houston, Tex. *Lt. Col.* (**1,** 1936)

Blair, Henry A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Dir. of Dept. of Radiation Biology; Dir., Atomic Energy Project.* (**1,** 1934)

Blair, Joseph Reese, M.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Lt. Col., USA.* (**1,** 1952)

Blake, William D., M.D. Univ. of Oregon Med. School, Dept. of Physiology, Portland 1. *Assoc. Prof. of Physiology.* (**1,** 1950)

Blanchard, Ernest W., Ph.D. Schieffelin and Co., 30 Cooper Sq., New York City 3. *Dir. of Research.* (**1,** 1946)

Blankenhorn, M. A., M.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Medicine.* (**4,** 1932)

Blatherwick, Norman R., Ph.D. P.O. Box 3422, Daytona Beach, Fla. (**1,** 1915; **2R,** 1915; **5,** 1934)

Blau, Nathan F., Ph.D. Veterans Admin. Center, E. Kellogg & Bradley Drive, Wichita 8, Kan. *Research Biochemist, VA Hospital.* (**2,** 1928)

Blish, Morris J., Ph.D. Internatl. Minerals and Chemical Corp., 5401 Harrison St., Skokie, Ill. *Supervisor of Organic and Biochem. Research.* (**2,** 1944)

Bliss, Chester Ittner, Ph.D. Conn. Agricultural Exper. Station, P. O. Box 1106, New Haven. *Biometrician; Lecturer in Biometry, Yale Univ.* (**3,** 1944)

Bliss, Eleanor A., Sc.D. Bryn Mawr College, Dept. of Biology, Bryn Mawr, Pa. *Prof. of Biology; Dean of Grad. School.* (**6,** 1931)

Bloch, Konrad, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Professor.* (**2,** 1944)

Block, Matthew H., Ph.D., M.D. Univ. of Colorado Med. School, Denver. *Assoc. Prof. of Medicine.* (**4,** 1953)

Block, Richard J., Ph.D. 15 Cooper Rd., Scarsdale, N. Y. *Assoc., Dept. of Biochemistry, New York Med. College, Flower and Fifth Ave. Hospital; Dir., Biochemical Research Lab., Special Products Div., Borden Co., Yonkers.* (**2,** 1934; **5,** 1933)

Block, Walter D., Ph.D. Univ. of Michigan Med. School, Kresge Med. Research Bldg., Ann Arbor. *Assoc. Prof. of Biological Chemistry, Inst. of Ind. Health.* (**2,** 1942)

Blood, Frank R., Ph.D. Vanderbilt Univ., Dept. of Biochemistry, Nashville 4, Tenn. *Professor.* (**1,** 1950)

Bloom, William, M.D. 1419 E. 56th St., Chicago, Ill. *Prof. of Anatomy, Univ. of Chicago.* (**4,** 1930)

Bloomfield, A. L., M.D. Stanford Univ. Hospital, San Francisco, Calif. *Prof. of Medicine.* (**3,** 1927; **4,** 1927)

Bloor, W. R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. Emeritus of Biochemistry.* (**1R,** 1915; **2R,** 1910)

Blum, Harold F., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Physiologist, Natl. Cancer Inst., and Visiting Lecturer.* (**1,** 1928)

Blumberg, Harold, Sc.D. Endo Products, Inc., 84–40 101st St., Richmond Hill 18, N. Y. *Head of Biological Labs.* (**5,** 1942)

Blumenstock, Julius, M.D. Veterans Admin. Hospital, Sheridan, Wyo. (**1,** 1925)

Blumenthal, Herman T., M.D., Ph.D. The Jewish Hospital, 216 S. Kingshighway, St. Louis 10, Mo. *Dir. of Labs.* (**4,** 1951)

Blumgart, Herrman L., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Physician-in-Chief; Prof. of Medicine, Harvard Med. School.* (**1,** 1927)

Bly, Chauncey G., M.D., Ph.D. Univ. of Kansas School of Medicine, 39th and Rainbow, Kansas City. *Asst. Prof. of Pathology and Oncology.* (**4,** 1951)

Bobb, J. Richard R., M.D. School of Medicine, Temple Univ., Philadelphia 40, Pa. *Asst. Prof. of Pharmacology.* (**1,** 1949)

Bock, Joseph C., Ph.D. 2324 N. 46th St., Milwaukee 10, Wis. *Prof. Emeritus of Biochemistry, Marquette Univ. Med. School; Biochemist, Milwaukee County Hospital.* (**2R,** 1916)

Bodansky, Aaron, Ph.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Biological Chemist.* (**2R,** 1926)

Bodansky, Oscar, Ph.D., M.D. Memorial Cancer Center, 444 E. 68th St., New York City 21. *Chief, Clin. Biochemistry; Prof. of Biochemistry, Sloan-Kettering Div., Cornell Med. College.* (**2,** 1937; **3,** 1942)

Bodian, David, Ph.D., M.D. Johns Hopkins Univ., 1901 E. Madison St., Baltimore, Md. *Assoc. Prof. of Epidemiology.* (**6,** 1949)

Bodine, Joseph Hall, Ph.D. State Univ. of Iowa, Iowa City. *Prof. and Head of Dept. of Zoology.* (**1,** 1925)

Boell, Edgar J., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Ross G. Harrison Prof. of Exper. Zoology.* (**1,** 1942)

Boettiger, Edward G., Ph.D. Univ. of Connecticut, Box U-42, Storrs. *Assoc. Prof. of Zoology.* (**1,** 1950)

Boger, William P., M.D. Meadow Lane, R. D. 1, Wayne, Pa. *Med. Dir., Sharp & Dohme, Inc.; Assoc. in Medicine, Univ. of Pennsylvania Med. School.* (**3,** 1948)

Bogert, L. Jean, Ph.D. Hotel Claremont, Berkeley, Calif. (**2R,** 1917)

Bogert, Marston Taylor, Sc.D. 1158 Fifth Ave., New York City 29. *Prof. Emeritus of Organic Chemistry, Columbia Univ.; Sr. Chemical Consultant at Evans Research and Development Corp.* (**2R,** 1925)

Bohr, David F., M.D. Univ. of Michigan, Physiology Lab., Ann Arbor. *Assoc. Prof.* (**1,** 1949)

Bolliger, Adolph, Ph.D. Univ. of Sydney, Gordon Craig Research Lab., Sydney, Australia. *Dir. of Research.* (**2,** 1928)

Bollman, J. L., M.D. Mayo Clinic, Rochester, Minn. *Chairman of Div. of Exper. Medicine; Prof. of Physiology, Mayo Foundation.* (**4,** 1927)

Bond, Glenn C., Ph.D., M.D. The Upjohn Co., Kalamazoo, Mich. *Asst. Dir. of Control.* (**6,** 1939)

Bondi, Amedeo, Jr., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Bacteriology.* (**6,** 1948)

Bonner, David M., Ph.D. Yale Univ., Brudy Memorial Lab., 33 Cedar St. New Haven, Conn. *Research Assoc., Microbiology.* (**2,** 1948)

Bonner, James, Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biology.* (**2,** 1952)

Bonnycastle, Desmond D., M.D., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Bonsnes, Roy W., Ph.D. Cornell Univ. Med. College, Dept. of Biochemistry, 1300 York Ave., New York City 21. *Assoc. Prof.; Chemist, Woman's Clinic, N. Y. Hospital.* (**2,** 1947)

Booher, Lela E., Ph.D. 4858 E. 13th St., Tucson, Ariz. (**2,** 1933; **5,** 1933)

Booker, Walter M., Ph.D. Howard Univ. School of Medicine, Washington, D. C. *Assoc. Prof. of Pharmacology.* (**1,** 1948; **3,** 1948)

Boone, Bert R., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Technical Development Sec.* (**1,** 1951)

Boor, Alden K., Ph.D. Camp Detrick, Biological Labs., Frederick, Md. *Biochemist, Chemical Corps, U.S.A.* (**2,** 1931)

Borchers, Raymond, Ph.D. Univ. of Nebraska, Dept. of Biochemistry and Nutrition, Lincoln 3. *Assoc. Prof.* (**5,** 1951)

Bordley, James, III, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Director; Clin. Prof. of Medicine, Columbia Univ.* (**1,** 1938)

Borek, Ernest, Ph.D. College of the City of New York, Convent Ave. and 140th St., New York City. *Asst. Prof.; Research Assoc. in Biochemistry, Columbia Univ.* (**2,** 1947)

Borison, Herbert Leon, Ph.D. Univ. of Utah, College of Medicine, Dept. of Pharmacology, Salt Lake City. *Asst. Prof.* (**1,** 1950; **3,** 1952)

Boroff, Daniel A., Ph.D. State Research Hospital, Galesburg, Ill. *Chief Bacteriologist.* (**6,** 1947)

Borsook, Henry, M.D., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biochemistry.* (**2,** 1931)

Bosshardt, David K., Ph.D. Sharp & Dohme, Med. Research Div., West Point, Pa. *Research Biochemist.* (**5,** 1947)

Bostick, Warren L., M.D. Univ. of California Med. School, Dept. of Pathology, San Francisco 22. *Assoc. Prof.* (**4,** 1949)

Bosworth, Alfred Willson, A.M., M.D. R.F.D. 4, Circleville, Ohio. *Consulting Chemist.* (**2,** 1936; **5R,** 1935)

Bott, Phyllis A., Ph.D. Woman's Med. College of Pennsylvania, Henry Ave. and Abbottsford Rd., Philadelphia. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**2,** 1938)

Botts, Dorothy Jean, Ph.D. Naval Med. Research Inst., Div. of Physical Biochemistry, Natl. Naval Med. Center, Bethesda 14, Md. *Physiologist.* (**1,** 1952)

Boucher, Robert V., Ph.D. 303 Frear Labs., Pennsylvania State College, State College, Pa. *Prof.*

of Agricultural and Biological Chemistry. (**5,** 1945)

Bouman, H. D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physical Medicine.* (**1,** 1943)

Bourne, Wesley, M.D., M.Sc. McGill Univ., Dept. of Anesthesia, Montreal, Que., Canada. *Consultant Anesthetist.* (**3,** 1936)

Bourque, Joseph E., M.D., Ph.D. 2700 Western Ave., Park Forest, Ill. *Asst. Prof., Univ. of Illinois.* (**1,** 1949)

Bourquin, Helen, Ph.D. 1331 N. Tejon St., Colorado Springs, Colo. (**1,** 1925)

Bovarnick, Marianna R., Ph.D. Veterans Administration Hospital, Brooklyn 9, N. Y. *Lecturer, State Univ. of New York College of Medicine, New York City.* (**2,** 1953)

Bowen, William J., Ph.D. USPHS, Natl. Insts. of Health, Bethesda 14, Md. *Physiologist; Sr. Scientist.* (**1,** 1948)

Bowman, Donald E., Ph.D. Indiana Univ., School of Medicine, Dept. of Biochemistry, Indianapolis, Ind. *Prof. of Biochemistry.* (**2,** 1944)

Bowman, Katherine L., B.A. Allergy Lab., Jewish Hospital of Brooklyn, Brooklyn 16, N. Y. *Research Asst.; Research Fellow in Allergy.* (**6,** 1946)

Boxer, George E., Ph.D. 662 Bryant St., Rahway, N. J. *Sr. Chemist, Research and Development Div., Merck & Co., Inc.* (**2,** 1946)

Boyd, Eldon M., M.D. Queen's Univ., Kingston, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Boyd, Linn J., M.D. New York Med. College and Flower & Fifth Ave. Hospitals, 1 E. 105th St., New York City 29. *Prof. of Pharmacology; Dir. of Medicine.* (**3,** 1950)

Boyd, M. John, Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia 2, Pa. *Prof. and Head, Div. of Biol. Chemistry.* (**2,** 1947)

Boyd, T. E., Ph.D. 9 Walworth Ave., Scarsdale, N. Y. *Asst. Dir. of Research, Natl. Fndn. for Infantile Paralysis, 120 Broadway, New York City 5.* (**1,** 1924)

Boyd, William C., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. (**6,** 1933)

Boyden, Allan A. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**6,** 1948)

Boyden, Edward A., Ph.D. Univ. of Minnesota, Minneapolis 14. *Prof. and Chairman of Dept. of Anatomy.* (**1,** 1929)

Boyer, Paul D., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 1. *Prof., Agricultural Biochemistry.* (**2,** 1944)

Boyle, Paul E., D.M.D. Univ. of Pennsylvania School of Dentistry, 40th and Spruce Sts., Philadelphia 4. *Prof. of Oral Pathology.* (**4,** 1939)

Bozicevich, John, M.A. USPHS, Natl. Insts. of Health, Bethesda, Md. *Head, Subsection of Immunology, Trop. Diseases Div.* (**6,** 1948)

Bozler, Emil, Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1932)

Bradbury, James T., Sc.D. Dept. of Obstetrics and Gynecology, University Hospital, Iowa City, Iowa. *Assoc. Prof.* (**1,** 1941)

Bradley, Harold C., Ph.D. 2639 Durant Ave., Berkeley, Calif. (**1R,** 1911; **2,** 1908)

Bradley, Stanley E., M.D. Columbia Univ. College of Physicians and Surgeons, 620 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1947)

Bradley, William B., Ph.D. American Inst. of Baking, 1046 Elmwood Ave., Wilmette, Ill. *Dir. of Labs.* (**1,** 1939)

Bragdon, Joseph Henry, M.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Pathology Lab., Bethesda 14, Md. *Surgeon, USPHS.* (**4,** 1950)

Branch, E. Arnold G., M.D. Lancaster Hospital, St. John, New Brunswick, Canada. *Chief, Lab. Service; Provincial Med. Dir., Red Cross Blood Transfusion Service.* (**4,** 1929)

Brandes, W. W., M.D. Roosevelt Hospital, W. 59th St., New York City. (**4,** 1931)

Branham, Sara E., Ph.D., M.D., Natl. Insts. of Health, Bethesda, Md. *Sr. Bacteriologist.* (**6,** 1926)

Branion, Hugh Douglas, Ph.D. Ontario Agricultural College, Guelph, Canada. *Prof. and Head of Dept. of Nutrition.* (**5,** 1933)

Brassfield, Charles R., Ph.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1937)

Bratton, Andrew Calvin, Jr., M.D., Ph.D. Parke. Davis & Co., Research Labs., Detroit 32, Mich. *Dir. of Pharmacological Research.* (**3,** 1941)

Brauer, Ralph W., Ph.D. Naval Radiological Defense Lab., San Francisco, Calif. *Head, Metabolism Sec.* (**3,** 1948)

Braun, Herbert A., Ph.D. Food and Drug Admin., Washington, D. C. *Pharmacologist.* (**3,** 1941)

Brazier, Mary A. B., Ph.D. Massachusetts General Hospital, Electroencephalographic Lab., Boston 14. *Research Assoc. in Neuropathology, Harvard Med. School.* (**1,** 1947)

Brecher, George, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Hematology Service.* (**4,** 1949)

Brecher, Gerhard A., M.D., Ph.D. Western Reserve Univ. Med. School, Dept. of Physiology, Cleveland 6, Ohio. *Asst. Prof.* (**1,** 1949)

Breedis, Charles, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Asst. Prof. of Experimental Pathology.* (**4,** 1948)

Bremer, Frederic, M.D. 115 Blvd. de Waterloo, Brussels, Belgium. *Prof. and Dir. of Dept. of Physiopathology, Univ. of Brussels.* (**1H,** 1950)

Brewer, Carl R., Ph.D. Camp Detrick, Frederick, Md. *Physical Science Admin., U. S. Army, Chemical Corps.* (**2,** 1948)

Brewer, John H., Ph.D. Hynson Westcott and Dunning, Baltimore, Md. *Dir. of Biological Research.* (**6,** 1948)

Brewer, Nathan R., Ph.D., D.V.M. Univ. of Chicago, Chicago, Ill. *Asst. Prof. of Physiology; Supt. of Animal Qtrs.* (**1,** 1948)

Brewer, Wilma D., Ph.D. Michigan State College, Dept. of Foods and Nutrition, East Lansing. *Assoc. Prof.* (**5,** 1951)

Bridge, Edward M., M.D. Univ. of Buffalo School of Medicine, 3435 Main St., Buffalo 14, N. Y. *Prof. of Pharmacology.* (**2,** 1940; **3,** 1951)

Briggs, A. P., M.D. Univ. of Georgia Med. College, Augusta. *Prof. of Biochemistry.* (**2R,** 1923)

Briggs, David R., Ph.D. Univ. of Minnesota, Div. of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Prof. of Agricultural Biochemistry.* (**2,** 1946)

Briggs, George M., Ph.D. Natl. Insts. of Health, Poultry Nutrition Unit, Lab. of Biochemistry and Nutrition, Bethesda 14, Md. *Chief.* (**5,** 1947)

Brink, Frank, Jr., Ph.D. Johns Hopkins Univ., Biological Labs., Baltimore 18, Md. *Member, Rockefeller Inst. for Med. Research.* (**1,** 1942)

Brinkhous, K. M., M.D. Univ. of North Carolina School of Medicine, Dept. of Pathology, Chapel Hill. *Prof. of Pathology.* (**4,** 1939)

Briody, Bernard A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Assoc. Prof. and Dir. of Virus Lab.* (**6,** 1951)

Britton, Sydney W., M.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (**1,** 1925)

Brobeck, John R., M.D., Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Chairman, Dept. of Physiology.* (**1,** 1943)

Brodie, Bernard B., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Lab. of Chemical Pharmacology.* (**2,** 1940; **3,** 1945)

Brodsky, William A., M.D. Univ. of Louisville, Inst. for Med. Research, Louisville, Ky. *Assoc. Prof. of Pediatrics.* (**1,** 1952)

Brody, Daniel A., M.D. Univ. of Tennessee, Memphis. *Instructor, Dept. of Medicine.* (**1,** 1953)

Brody, Samuel, Ph.D. Univ. of Missouri College of Agriculture and Agricultural Experiment Station, Dairy Building, Columbia. *Prof. of Dairy Husbandry.* (**2,** 1929; **5,** 1933)

Brody, Theodore M., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Instructor.* (**3,** 1953)

Broh-Kahn, Robert H., M.D. Lasdon Foundation, Nepera Park, Yonkers, N. Y. *Scientific Dir.* (**1,** 1948)

Bromiley, Reginald B., Ph.D. Defense Research Med. Labs., Postal Station "K", Box 62, Toronto, Ont., Canada. *Chief, Applied Exper. Psychology Sec.* (**1,** 1949)

Bronfenbrenner, J. J., Ph.D., D.P.H. Wake Forest College, Bowman Gray School of Medicine, Dept. of Microbiology and Immunology, Winston-Salem, N.C. (**4,** 1940; **6,** 1918)

Bronk, Detlev W., Ph.D., Sc.D. Natl. Academy of Sciences, 2101 Constitution Ave., Washington 25, D. C. *Pres.; Pres. Rockefeller Inst. for Med. Research, New York City.* (**1,** 1927)

Brookes, Margaret C. Hessler, Ph.D. 5718 S. Dorchester Ave., Chicago 37, Ill. *Asst. Prof., Chicago Teachers College.* (**5,** 1935)

Brookhart, John M., Ph.D. Univ. of Oregon School of Medicine, Dept. of Physiology, Portland. *Prof. and Head of Dept.* (**1,** 1946)

Brooks, Chandler McCuskey, Ph.D. State Univ. of New York Med. Center at New York, College of Medicine, 350 Henry St., Brooklyn 1. *Prof. of Physiology and Pharmacology; Exec. Officer of Dept.* (**1,** 1934; **3,** 1950)

Brooks, Clyde, Ph.D., M.D. Univ. Clinic, 2506 Ponce de Leon Blvd., Coral Gables, Fla. *Internal Medicine.* (**1,** 1910; **3,** 1912)

Brooks, Matilda Moldenhauer, Ph.D. Univ. of California, Dept. of Physiology, Berkeley. *Research Assoc. in Biology.* (**1,** 1923)

Broquist, Harry P., Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Head, Dept. of Microbiology.* (**2,** 1951)

Broun, Goronwy Owen, M.D. 1325 S. Grand Blvd., St. Louis, Mo. *Prof. of Internal Medicine, St. Louis Univ.* (**4,** 1927)

Brovha, Lucien, M.D., D.Sc. DuPont Co., Haskell Lab., Wilmington, Del. *Physiologist.* (**1,** 1953)

Brown, Barbara Banker, Ph.D. Wm. S. Merrell Co., Pharmacology Dept., Cincinnati 15, Ohio. *Head, Sec. on Gen. Pharmacology.* (**3,** 1951)

Brown, Claude P., M.D. 1930 Chestnut St., Philadelphia, Pa. *Practicing Clin. Pathologist.* (**6,** 1913)

Brown, Dugald E. S., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. (**1,** 1932)

Brown, Edgar D., Pharm. D., M.D. Paynesville, Minn. *Retired.* (**1R,** 1907; **3R,** 1909)

Brown, Ernest B., Jr., Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. *Assoc. Prof.* (**1,** 1950)

Brown, Ethan Allan, L.R.C.P. (Eng.), M.R.C.S. (London). 75 Bay State Rd., Boston, Mass. (**6,** 1946)

Brown, Frank A., Jr., Ph.D. Northwestern Univ., Dept. of Biological Sciences, Evanston, Ill. *Prof. and Chairman of Dept.* (**1,** 1940)

Brown, George B., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Head, Div. of Protein Chemistry;*

Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College. (**2,** 1947)

Brown, Gordon Campbell, Sc.D. School of Public Health, Ann Arbor, Mich. *Assoc. Prof. of Epidemiology.* (**6,** 1949)

Brown, J. H. U., Ph.D. Emory Univ., School of Medicine, Dept. of Physiology, Emory, Ga. *Assoc. Prof.* (**1,** 1952)

Brown, John B., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiological Chemistry and Dir., Inst. of Nutrition and Food Technology.* (**2,** 1927; **5,** 1934)

Brown, R. A., Ph.D. Parke Davis & Co., Research Labs., Detroit 32, Mich. *Dir. of Bio-Assay Div.* (**5,** 1946)

Brown, Rachel, Ph.D. 26 Buckingham Drive, Albany, N. Y. *Assoc. Biochemist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** (1933)

Brown, Robert V., Ph.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis 3. *Assoc. Prof.* (**1,** 1945; **3,** 1950)

Browne, J. S. L., M.D., Ph.D. Royal Victoria Hospital, Univ. Clinic, Montreal, Que., Canada. *Asst. Prof. of Medicine, McGill Univ.* (**1,** 1934)

Brownell, Katharine A., Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Assoc.* (**1,** 1943)

Brozek, Josef, Ph.D. Univ. of Minnesota, Stadium South Tower, Minneapolis 14. *Assoc. Prof., Lab. of Physiological Hygiene, School of Public Health.* (**1,** 1947)

Brues, Austin M., M.D. Argonne National Labs., P.O. Box 299, Lemont, Ill. *Dir. of Biology Div.* (**1,** 1940)

Bruesch, S. R., M.D., Ph.D. Univ. of Tennessee, Div. of Anatomy, Memphis 3. *Prof. of Anatomy.* (**1,** 1949)

Bruger, Maurice, M.D., M.Sc. 301 E. 20th St., New York City 3. *Assoc. Prof. of Medicine, New York Univ. Post-Grad. Med. School; Chief, Div. of Pathological Chemistry, New York University Hospital.* (**2,** 1935; **5,** 1935)

Bruhn, John M., Ph.D. Med. College of Alabama, Dept. of Physiology, 620 S. 20th St., Birmingham 5. *Prof. of Physiology and Pharmacology.* (**1,** 1939)

Bruner, Harry Davis, M.D., Ph.D. Emory Univ., Dept. of Physiology, Atlanta, Ga. *Chairman of Dept.* (**3,** 1945)

Brunschwig, Alexander, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Surgery; Attending Surgeon, Memorial Hosp.* (**4,** 1937)

Bryan, W. Ray, Ph.D. 4405 Bywood Lane, Bethesda, Md. *Principal Biologist, Natl. Cancer Inst.; Head, Virus Oncology Unit.* (**1,** 1934; **4,** 1940)

Buchanan, John M., Ph.D. Massachusetts Inst. of Technology, Div. of Biochemistry, Dept. of Biology, 77 Mass. Ave., Cambridge 39. *Prof. and Head of Div. of Biochemistry.* (**2,** 1949)

Buchbinder, Leon, Ph.D. Dept. of Health, 125 Worth St., New York City. *Asst. Dir., Bur. of Labs.* (**6,** 1934)

Buchbinder, William C., M.D. 1893 Sheridan Rd., Highland Park, Ill. *Assoc. Prof. of Medicine, Northwestern Univ. Med. School; Attending in Medicine, Michael Reese Hospital and VA Hospital, Hines; Consultant in Medicine, Highland Park Hospital.* (**1,** 1940)

Buckner, G. Davis, Ph.D. Kentucky Agricultural Exper. Station, Lexington. *In charge of Animal Nutrition.* (**2R,** 1920)

Bucy, Paul C., M.D. 5830 Stony Isld. Ave., Chicago 37, Ill. *Prof. of Neurology and Neurological Surgery, Univ. of Illinois.* (**1,** 1933)

Buddingh, G. John, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Microbiology; Head of Dept.* (**4,** 1940)

Bueding, Ernest, M.D. Western Reserve Univ. School of Medicine, Dept. of Pharmacology, Cleveland 6, Ohio. *Assoc. Prof. of Pharmacology.* (**2,** 1946; **3,** 1949)

Buell, Mary V., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Research Assoc., Dept. of Pharmacology.* (**2,** 1921)

Bugher, John C., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 21. *Member, Internatl. Health Div.* (**4,** 1935)

Bukantz, Samuel C., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Medicine.* (**6,** 1943)

Bulatao, Emilio, M.D. Univ. of the Philippines, Manila, P. I. *Prof. of Physiology and Biochemistry.* (**1,** 1924)

Bull, Henry B., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Prof. and Head of Dept.* (**2,** 1937)

Bullock, Theodore H., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Zoology.* (**1,** 1948)

Bunde, Carl A., M.D., Ph.D. Pitman-Moore Co., Indianapolis 6, Ind. *Research Dir.* (**1,** 1943)

Bunney, William Edward, Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Vice Pres.; Dir. of Manufacturing Labs.* (**6,** 1931)

Bunting, Charles H., M.D. 139 Armory St., Hamden, Conn. *Prof. Emeritus of Pathology, Univ. of Wisconsin; Lecturer in Pathology, Yale Med. School.* (**4,** 1913)

Bunzell, H. H., Ph.D. Box 44, General Post Office, New York City 1. *Dir. of Bunzell Labs.* (**2R,** 1908)

Burchell, Howard B., M.D., Ph.D. Rochester, Minn. *Instr. in Medicine, Mayo Foundation; Consultant in Medicine, Mayo Clinic.* (**1,** 1942)

Burdick, H. O., Sc.D. Alfred Univ., Alfred, N. Y. *Dean of College of Liberal Arts and Prof. of Biology.* (**1,** 1940)

Burdon, Kenneth L., Ph.D. Baylor Univ. College

of Medicine, Houston, Tex. *Prof. of Microbiology; Chairman of Dept.; Consultant, Veterans Administration Hospital.* (**6,** 1936)

Burgen, A. S. V., M.B., MRCP. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor.* (**1,** 1950; **3,** 1950)

Burk, Dean, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Head Chemist, USPHS.* (**2,** 1939)

Burke, Bertha S., M.A. Harvard School of Public Health, 55 Shattuck St., Boston 15, Mass. *Assoc. Prof. of Maternal and Child Nutrition.* (**5,** 1952)

Burke, John C., Ph.D. E. R. Squibb and Sons, Div. of Pharmacology, New Brunswick, N. J. *Dept. Head.* (**3,** 1953)

Burns, Edward L., M.D. Mercy Hospital, Toledo, Ohio. *Pathologist.* (**4,** 1939)

Burr, George O., Ph.D. Exper. Station. H.S.P.A., Honolulu, Hawaii. *Head of Dept. of Biochemistry and Physiology.* (**2,** 1928; **5,** 1933)

Burris, Robert H., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Prof.* (**2,** 1946)

Burroughs, Wise, Ph.D. Iowa State College, Dept. of Animal Husbandry, Ames. *Assoc. Prof.* (**5,** 1951)

Burrows, William, Ph.D. Univ. of Chicago, Dept. of Bacteriology, Chicago 37, Ill. *Prof. of Bacteriology.* (**6,** 1947)

Burton, Alan C., Ph.D. Univ. of Western Ontario Med. School, Dept. of Biophysics, London, Ontario, Canada. *Prof. and Head of Dept.* (**1,** 1937)

Burton-Opitz, Russell, M.D., Ph.D. 218 Bridle Way, Palisade, N. J. *Attending Cardiologist, Lenox Hill Hospital; Attending Physician, Cumberland Hospital.* (**1R,** 1902; **2R,** 1906; **3R,** 1919)

Bush, Milton T., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1938)

Bussard, Alain, Ph.D. Pasteur Inst., Paris, France. *Researcher.* (**6,** 1952)

Butler, G. C., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto, Ont., Canada. *Professor.* (**2,** 1949)

Butler, Thomas C., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Prof. of Pharmacology.* (**3,** 1938)

Butt, Hugh R., M.D. Mayo Clinic, 102 Second Ave., S.W., Rochester, Minn. *Consultant in Medicine; Asst. Prof. of Medicine, Mayo Foundation.* (**5,** 1942)

Butts, Joseph S., Ph.D. Oregon State College, Corvallis. *Prof. of Biochemistry and Head of Agricultural Chemistry.* (**2,** 1936; **5,** 1936)

Byers, Sanford O., Ph.D. 1600 Divisadero St., San Francisco 15, Calif. *Research Biochemist, Harold Brunn Inst. for Cardiovascular Research, Mount Zion Hospital.* (**1,** 1949)

Cahen, Raymond L., Ph.D., M.D. Bristol-Myers Products Div., 225 Long Ave., Hillside, N. J. *Dir., Pharmacology Dept.* (**3,** 1949)

Cahill, William M., Ph.D., M.D. S. California Edison Co., 501 S. Marengo, Alhambra. *Physician and Surgeon, Med. Dept.* (**2,** 1940)

Cajori, Florian A., Ph.D. Univ. of Colorado Med. School, Denver 20. *Assoc. Prof. of Biochemistry.* (**2,** 1922; **5,** 1933)

Caldwell, Mary L., Ph.D. Columbia Univ., New York City. *Prof. of Chemistry.* (**2,** 1924; **5,** 1933)

Calesnick, Benjamin, M.D. 1036 S. 54th St., Philadelphia 43, Pa. *Assoc. in Pharmacology, Hahnemann Med. College.* (**3,** 1951)

Callison, Elizabeth C., M.S. U. S. Dept. of Agriculture, Agricultural Research Station, Food and Nutrition Div., Bureau of Human Nutrition, Beltsville, Md. *Nutrition Physiologist.* (**5,** 1949)

Calloway, Nathaniel Oglesby, Ph.D., M.D. Univ. of Illinois, 1853 W. Polk, Chicago 12. *Clinical Asst. Prof. of Medicine.* (**3,** 1945)

Calvin, D. Bailey, Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Biological Chemistry and Dean of Student and Curricular Affairs.* (**1,** 1934; **2,** 1939)

Calvin, Melvin, Ph.D. Univ. of California, Berkeley 4. *Prof. of Chemistry.* (**2,** 1949)

Camien, Merrill N., Ph.D. Univ. of California at Los Angeles, Dept. of Chemistry, Los Angeles 24. *Asst. Research Chemist.* (**2,** 1953)

Caminopetros, John, M.D. Hellenic Pasteur Inst., 103 Queen Sophie Ave., Athens, Greece. *Chief of the Service of Exper. Medicine.* (**6,** 1946)

Camp, Walter J. R., M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago, Ill. *Prof. of Pharmacology and Toxicology; State Toxicologist.* (**3,** 1926)

Campbell, Berry, Ph.D. Univ. of Minnesota, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1,** 1945)

Campbell, Dan H., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Immunochemistry.* (**6,** 1938)

Campbell, H. Louise, Ph.D. 900 Windsor Ave., Windsor, Conn. (**5R,** 1933)

Campbell, J. Alexander, Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Div., Ottawa, Ont., Canada. *Chief, Vitamin and Nutrition Lab.* (**5,** 1950)

Campbell, James, Ph.D. Univ. of Toronto, Toronto, Ont., Canada. *Assoc. Prof. of Physiology; Lt. Comdr., (S.B.) R.C.N.V.R.* (**1,** 1943)

Campbell, Walter Ruggles, M.D. 334 St. Clair Ave. East, Toronto, Canada. *Assoc. Prof. of Medicine, Univ. of Toronto.* (**2,** 1922)

Cannan, R. Keith, D.Sc. Natl. Research Council, 2101 Constitution Ave., Washington, D. C. *Chairman, Div. of Med. Sciences.* (**2,** 1931)

Cannon, Paul R., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1930; **6,** 1929)

Cantarow, Abraham, M.D. Jefferson Med. College, Philadelphia 7, Pa. *Prof. of Biochemistry.* (**1,** 1932; **3,** 1935)

Cantoni, G. L., M.D. Western Reserve Univ. School of Medicine, Dept. of Pharmacology, Cleveland 6, Ohio. *Assoc. Prof.* (**2,** 1953; **3,** 1945)

Canzanelli, Attilio, M.D. Tufts College Med. School, 136 Harrison Ave., Boston, Mass. *Prof. of Exper. Physiology.* (**1,** 1934)

Capps, Robert T., Ph.D. 602 McArdle Bldg., N. Charter St., Madison 6, Wis. *Research Fellow, American Heart Association.* (**3,** 1951)

Carlson, A. J., Ph.D., M. D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Prof. Emeritus of Physiology.* (**1,** 1904; **5R,** 1933)

Carlson, Loren D., Ph.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. (**1,** 1945)

Carmichael, Emmett B., Ph.D. Univ. of Alabama Med. College and School of Dentistry, Dept. of Biochemistry, 1919 Seventh Ave., So. Birmingham 5. *Prof. and Chairman of Dept.* (**1,** 1931; **2,** 1946)

Carmichael, Leonard, Ph.D., Sc.D. Smithsonian Inst., Washington 25, D. C. *Secretary (Dir.).* (**1,** 1937)

Carnes, William H., M.D. 2398 Sacramento St., San Francisco 15, Calif. *Assoc. Prof. of Pathology, Stanford Univ.* (**4,** 1951)

Carpenter, Frederick H., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Asst. Prof.* (**2,** 1949)

Carpenter, Thorne M., Ph.D. 142 Birch Tree Drive, Westwood, Mass. (**1R,** 1915; **2R,** 1909; **5R,** 1935)

Carr, C. Jelleff, Ph.D. Univ. of Maryland School of Medicine, 29 S. Green St., Baltimore 1. *Prof. of Pharmacology.* (**3,** 1940)

Carr, Jesse L., M.D. San Francisco Hospital, San Francisco, Calif. *Clin. Prof. of Pathology.* (**4,** 1940)

Carrera, Guillermo M., M.D. Tulane Univ. School of Medicine, 1430 Tulane Ave., New Orleans 12, La. *Asst. Prof. of Pathology and Tropical Medicine.* (**4,** 1951)

Carruthers, Christopher, Ph.D. Roswell Park Memorial Inst., 663 N. Oak St., Buffalo 3, N. Y. *Assoc. Cancer Research Scientist.* (**2,** 1948)

Carson, Stanley F., Ph.D. Oak Ridge Natl. Lab., Biology Div., P. O. Box P, Oak Ridge, Tenn. *Principal Biologist; Asst. Dir., Biology Div.* (**2,** 1952)

Carter, Charles E., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Prof. of Pharmacology.* (**2,** 1950)

Carter, Herbert E., Ph.D. Univ. of Illinois, 401 E. Chemistry Bldg., Urbana. *Prof. of Biochemistry.* (**2,** 1937; **5,** 1941)

Carter, John R., M.D. State Univ. of Iowa College of Medicine, Dept. of Pathology, Iowa City. *Assoc. Prof. of Pathology.* (**4,** 1951)

Cartland, George F., Ph.D. The Upjohn Co., Research Dept., Kalamazoo, Mich. *Asst. Dir. of Research.* (**2,** 1936)

Cartwright, G. E., M.D. Salt Lake Gen. Hospital, Salt Lake City. *Assoc. Prof. of Medicine, Univ. of Utah.* (**5,** 1951)

Cary, Charles A., S.B. 141 N.W. 100th Terrace, Miami Shores, Fla. (**2R,** 1920)

Casas, Carmen B., Ph.D. School of Tropical Medicine, The Med. School, San Juan, Puerto Rico. *Assoc. Prof. of Physiology.* (**1,** 1952)

Casey, Albert Eugene, M.D. 1907 Wellington Rd., Birmingham 9, Ala. *Pathologist and Dir. of Labs., Baptist Hospital; Prof. of Pathology, Med. College of Alabama.* (**4,** 1933)

Cash, James Robert, M.D. Univ. Hospital, Charlottesville, Va. *Prof. of Pathology, Univ. of Virginia.* (**4,** 1924)

Cassidy, Harold G., Ph.D. Yale Univ., Dept. of Chemistry, New Haven, Conn. *Assoc. Prof.* (**2,** 1949)

Castle, Edward S., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Assoc. Prof. of Physiology.* (**1,** 1934)

Castle, William B., M.D. Boston City Hospital, Boston, Mass. *Prof. of Medicine, Harvard Univ.; Dir. of Thorndike Memorial Lab.* (**4,** 1942)

Catchpole, Hubert Ralph, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Research Assoc. Prof. of Pathology.* (**1,** 1941)

Cathcart, E. P., M.D., D.Sc. Univ. of Glasgow, Glasgow, Scotland. *Dean of Univ.* (**5R,** 1935)

Catron, Damon, Ph.D. Iowa State College, Dept. of Animal Husbandry, Ames. *Research Assoc. Prof.* (**5,** 1953)

Catron, Lloyd, M.D. City Hospital, Akron, Ohio. *Pathologist and Dir. of Labs.* (**4,** 1939)

Cattell, McKeen, Ph. D., M. D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Pharmacology.* (**1,** 1923; **3,** 1924)

Cavalieri, Liebe Frank, Ph.D. Sloan-Kettering Inst., 410 East 68th St., New York City 21. *Assoc.; Asst. Prof. of Biochemistry, Sloan-Kettering Div., Cornell Med. College.* (**2,** 1953)

Cavelti, Philip A., M.D. 520 Cowper St., Palo Alto, Calif. (**6,** 1947)

Cazort, Ralph Jerry, M.D. Meharry Med. College, Nashville 8, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1951)

Cederquist, Dena C., Ph.D. Michigan State College, School of Home Economics, East Lansing. *Assoc. Prof. of Foods and Nutrition.* (**5,** 1949)

Ceithaml, Joseph J., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Cerecedo, Leopold R., Ph.D. Fordham Univ., Dept. of Chemistry, New York City. *Prof. of Biochemistry.* (**2,** 1931; **5,** 1945)

Chadwick, Leigh Edward, Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Entomology Br.* (**1,** 1944)

Chaikoff, I. L., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Physiology.* **(1,** 1932)

Chalkley, Harold W., Ph.D. 4609 Highland Ave., Bethesda 14, Md. **(1,** 1932)

Chamberlain, W. Edward, M.D. Temple Univ. Med. School, Philadelphia, Pa. *Prof. of Radiology.* **(1,** 1948)

Chambers, Alfred H., Ph.D. Univ. of Vermont School of Medicine, Dept. of Physiology, Burlington. **(1,** 1946)

Chambers, Leslie Addison, Ph.D. USPHS Environmental Health Center, 1014 Broadway, Cincinnati 2, Ohio. *Scientist Dir.* **(1,** 1940; **6,** 1948)

Chambers, Robert, Ph.D. New York Univ., Washington Sq., New York City. *Research Prof. Emeritus of Biology, N. Y. U.* **(1R,** 1932)

Chambers, William H., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Physiology Div.* **(1,** 1924; **5,** 1933)

Chambers, W. W., Ph.D. Univ. of Pennsylvania, School of Medicine, Dept. of Anatomy, Philadelphia 4. *Assoc. Prof.* **(1,** 1950)

Chance, Britton, Ph.D. Univ. of Pennsylvania, Johnson Fndn., 36th and Spruce Sts., Philadelphia 4. *Prof. and Dir. of Johnson Foundation.* **(1,** 1950; **2,** 1950)

Chandler, Joseph P., Ph.D. Univ. of Michigan Med. School, Room G455, Univ. Hosp., Ann Arbor. *Assoc. Prof. of Biological Chemistry; Biochemist, Univ. Hosp.* **(2,** 1944; **5,** 1944)

Chang, Min Chueh, Ph.D. Worcester Foundation for Exptl. Biology, Shrewsbury, Mass. *Research Assoc.* **(1,** 1946)

Changus, George W., M.D. Danbury Hospital, Danbury, Conn. **(4,** 1951)

Chanutin, Alfred, Ph.D. Univ. of Virginia School of Medicine, Biochemical Lab., Charlottesville. *Prof. of Biochemistry.* **(2,** 1925)

Chargaff, Erwin, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* **(2,** 1935)

Charipper, Harry Adolph, Ph.D. Washington Square College of Arts and Sciences, 100 Washington Square E., New York City. *Prof. and Chairman of Dept. of Biology.* **(1,** 1941)

Chase, Aurin M., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Assoc. Prof.* **(1,** 1939)

Chase, Harold F., M.D. Univ. of Virginia Hospital, Charlottesville. *Dir. and Assoc. Prof. of Anesthesiology.* **(3,** 1944)

Chase, Merrill W., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Assoc. Member.* **(6,** 1938)

Chasis, Herbert, M.D., Med. Sc.D. 477 First Ave., New York City. *Assoc. Prof. of Medicine, New York Univ. College of Medicine.* **(1,** 1941)

Chatfield, Charlotte, B.S. Viale delle Terme di Caracalla, Rome, Italy. *Nutrition Officer.* **(5,** 1941)

Chatfield, Paul Oakes, M.D. Natl. Insts. of Health, Clinical Center, Bethesda 14, Md. *Chief, Sec. of Clin. Neurophysiology.* **(1,** 1950)

Chatterjee, Hemendra Nath, M.D. 9 Romas Mitter Rd., Bhowanipur, Calcutta, India. **(6,** 1948)

Cheever, Francis Sargent, M.D. Univ. of Pittsburgh Grad. School of Public Health, Pittsburgh 13, Pa. *Prof. of Microbiology.* **(6,** 1950)

Cheldelin, Vernon H., Ph.D. Oregon State College, Corvallis. *Prof. of Chemistry; Dir., Science Research Inst.* **(2,** 1947; **5,** 1946)

Chen, Graham, Sc.D., M.D. Parke, Davis & Co., Detroit, Mich. *Lab. Dir.; Research Pharmacologist.* **(3,** 1944)

Chen, James Yu-ping, M.D. Marquette Univ. School of Medicine, Dept. of Pharmacology, Milwaukee 3, Wis. *Assoc. Prof. of Pharmacology.* **(3,** 1951)

Chen, K. K., Ph.D., M.D. Lilly Research Labs., Indianapolis, Ind. *Dir. of Pharmacological Research.* **(1,** 1929; **3,** 1942)

Cheney, Ralph H., Sc.D. Brooklyn College, Biology Dept., Bedford Ave. and Ave. H, Brooklyn 10, N. Y. *Professor.* **(3,** 1934)

Chenoweth, Maynard B. M.D. The Dow Chemical Co., Biochemical Research Lab., Midland, Mich. *Dir., Basic Biochemical Research Lab.* **(3,** 1945)

Chesley, Leon C., Ph.D. 45 DuBonnet Road, Valley Stream, N. Y. *Assoc. Prof. of Obstetrics and Gynecology, State Univ. of New York College of Medicine.* **(1,** 1949)

Chesney, Alan M., M.D. Johns Hopkins Hospital, Baltimore, Md. *Dean of Johns Hopkins Med. School; Assoc. Prof. of Medicine.* **(4,** 1925)

Child, Charles M., Ph.D. Stanford Univ., Stanford, Calif. *Prof. Emeritus of Zoology, Stanford Univ.* **(1R,** 1923)

Child, George P., Ph.D., M.D. White Labs., Inc. Kenilworth, N. J. *Dir. of Pharmacology.* **(3,** 1949)

Chin, Yin-Ch'ang, Ph.D. 1268 Sixth Ave., San Francisco, Calif. *Research Fellow, Univ. of California; Asst. Prof., Peking Union Med. College.* **(3,** 1950)

Chinard, Francis P., M.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Physiological Chemistry and Medicine.* **(2,** 1951)

Chinn, Herman I., Ph.D. School of Aviation Medicine, Randolph Field, Tex. *Head, Dept. of Pharmacology.* **(1,** 1950; **3,** 1951)

Chopra, R. N., M.D., Sc.D. School of Tropical Medicine, Calcutta, India. *Dir. and Prof. of Pharmacology.* **(3H,** 1938)

Choucroun, Nine. Dept. of Public Health and Preventive Medicine, 1300 York Ave., New York City 22. *Research Assoc., Cornell Med. College.* **(6,** 1949)

Chow, Bacon F., Ph.D. Johns Hopkins Univ. School of Hygiene, 615 N. Wolfe St., Baltimore 14, Md. *Assoc. Prof. of Biochemistry.* (**2,** 1940; **5,** 1948; **6,** 1944)

Christensen, Halvor N., Ph.D. Tufts College Med. School, Boston, Mass. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1947)

Christensen, L. Royal, Ph.D. New York Univ. College of Medicine, Dept. of Microbiology, 477 First Ave., New York City. *Asst. Prof.; Dir., Berg Inst.* (**6,** 1942)

Christman, Adam A., Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Biological Chemistry.* (**2,** 1929)

Churney, Leon, Ph.D. Louisiana State Univ. School of Medicine, New Orleans 12. *Assoc. Prof. of Physiology.* (**1,** 1953)

Chusid, Joseph G., M.D. St. Vincent's Hospital, Neurological Div., 145 W. 11th St., New York City 11. *Attending Neurologist.* (**1,** 1951)

Cizek, Louis Joseph, M.D. Columbia Univ. College of Physicians & Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Asst. Prof.* (**1,** 1951)

Clamann, Hans G., M.D. USAF School of Aviation Medicine, Dept. of Physiology and Biophysics, Randolph Field, Tex. *Research Physiologist.* (**1,** 1953)

Clark, Byron B., Ph.D. Tufts College Med. School, 136 Harrison Ave., Boston 15, Mass. *Prof. of Pharmacology.* (**3,** 1940)

Clark, Eliot R., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Anatomy.* (**1R,** 1919)

Clark, Ernest D., Ph.D. 826 Skinner Bldg., Seattle 1, Wash. *Dir. of the Labs., Northwest Branch, Natl. Canners' Assoc.* (**2R,** 1912)

Clark, George, Ph.D. Univ. of Buffalo, Dept. of Physiology, Buffalo 14, N. Y. *Assoc. Prof. of Physiology.* (**1,** 1943)

Clark, Guy W., Ph.D. R.F.D. 5330 Wild Horse Valley Rd., Napa, Calif. (**2R,** 1922)

Clark, Janet Howell, Ph.D. 708 Cedarcroft Rd., Baltimore, Md. *Research Assoc., Dept. of Environmental Medicine, Johns Hopkins Univ.* (**1,** 1922)

Clark, John Kapp, M.D. Univ. of Pennsylvania, Univ. Hospital, Philadelphia 4. *Asst. Prof. of Medicine; Dir. of Research, Smith, Kline & French Labs.* (**1,** 1953)

Clark, Leland C., Jr., Ph.D. Antioch College, Fels Research Inst., Yellow Springs, Ohio. *Research Assoc.* (**1,** 1953)

Clark, Paul F., Ph.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Med. Microbiology.* (**6,** 1928)

Clark, Robert T., Jr., Ph.D. USAF School of Aviation Medicine, Dept. of Physiology and Biophysics, Randolph Field, Tex. *Head.* (**1,** 1953)

Clark, William G., Ph.D. Gen. Med. Research, V. A. Center, Bldg. 114, Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Chief, Pharmacology-Physiology Section.* (**1,** 1942; **3,** 1949)

Clark, William Mansfield, Ph.D. Johns Hopkins Univ., Dept. of Chemistry, Baltimore, Md. *DeLamar Prof. Emeritus of Physiological Chemistry; Research Prof. of Chemistry.* (**2R,** 1920)

Clarke, Donald A., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc. Member and Head, Solid Tumor, Screening Sec.* (**3,** 1952)

Clarke, Hans Thacher, D.Sc. (London). Columbia Univ. College of Physicians & Surgeons, New York City 32. *Prof. of Biochemistry.* (**2,** 1929)

Clarke, Robert W. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. (**1,** 1936)

Cleghorn, Robert Allen, M.D., D.Sc. McGill Univ., Dept. of Psychiatry, Montreal, Quebec, Canada. *Assoc. Prof.* (**1,** 1937)

Clowes, George Henry Alexander, Ph.D. Eli Lilly & Co., Indianapolis 6, Ind. *Dir. of Research Emeritus.* (**2R,** 1914; **6,** 1919)

Coburn, Alvin F., M.D. Rheumatic Fever Research Inst., Chicago, Ill. *Director.* (**6,** 1948)

Coca, Arthur F., M.D. 425 Grant Ave., Oradell, N. J. (**6H,** 1916)

Cochran, K. W., Ph.D. Univ. of Michigan, School of Public Health, Dept. of Epidemiology, Ann Arbor. (**3,** 1952)

Code, Charles F., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology.* (**1,** 1939; **3,** 1950)

Coffey, Julia M., A.B. Div. of Labs. and Research, New York State Dept. of Health, Albany. *Assoc. Bacteriologist.* (**6,** 1937)

Coghill, Robert D., Ph.D. Abbott Labs., N. Chicago, Ill. *Dir. of Research.* (**2,** 1932)

Cohen, Philip P., Ph.D., M.D. Univ. of Wisconsin, Med. School, Madison. *Prof. of Physiological Chemistry.* (**2,** 1941)

Cohen, Saul L., Ph.D. Univ. of Minnesota, 207 Millard Hall. Minneapolis. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1948)

Cohen, Seymour S., Ph.D. Children's Hospital and Univ. of Pennsylvania School of Medicine, Philadelphia, Pa. *Assoc. Prof. of Physiological Chemistry and Pediatrics.* (**2,** 1946)

Cohen, Sophia M., B.S. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Sr. Bacteriologist.* (**6,** 1938)

Cohn, Alfred E., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1R,** 1911; **3,** 1913)

Cohn, Clarence, M.D. Michael Reese Hospital, Med. Research Inst., Chicago, Ill. *Dir. of Dept. of Biochemistry.* (**1,** 1948)

Cohn, Melvin. Pasteur Institute, Paris, France. (**6,** 1951)

Cohn, Mildred, Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Established Investigator, Am. Heart Assn.; Research Assoc., Biological Chemistry.* (**2,** 1949)

Cohn, Waldo E., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2,** 1944)

Cole, Harold H., Ph.D. Univ. of California, College of Agriculture, Dept. of Animal Husbandry, Davis. *Prof. and Chairman of Dept.* (**1,** 1947)

Cole, Harold N., Ph.B., M.D. 1352 Hanna Bldg., Cleveland, Ohio. *Clin. Prof. of Dermatology and Syphilology, Western Reserve Univ.* (**3,** 1925)

Cole, Kenneth S., Ph.D. Naval Med. Research Inst., Bethesda 14, Md. *Technical Dir.* (**1,** 1934)

Cole, Rufus, M.D., D.Sc. Mount Kisco, N. Y. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4R,** 1924; **6R,** 1917)

Cole, Versa V., Ph.D., M.D. Indiana Univ. Med. Center, Indianapolis. *Pharmacologist.* (**3,** 1941)

Colfer, Harry F., M.D., Ph.D. 9 Kempshall Ter., Fanwood, N. J. *Research Physician, Merck & Co., Rahway; Asst. Physician, Presbyterian Hospital, N. Y. C.* (**1,** 1950)

Collett, Mary Elizabeth, Ph.D. Western Reserve Univ., Mather College, Cleveland, Ohio. *Assoc. Prof. of Biology.* (**1,** 1921)

Collier, H. Bruce, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alta., Canada. *Prof. and Head of Dept.* (**2,** 1944)

Collings, William Doyne, Ph.D. Michigan State College, Dept. of Physiology, East Lansing. (**1,** 1944)

Collins, Dean A., Ph.D., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Prof. and Head of Dept. of Pharmacology.* (**1,** 1938)

Collins, Russell J., A.M., M.D. St. John, New Brunswick, Canada. *Med. Superintendent of St. John Tuberculosis Hospital.* (**3,** 1915)

Collip, J. B., Ph.D., M.D. Univ. of Western Ontario, R.R. 3, London, Ontario, Canada. *Dean of Medicine; Dir., Med. Research.* (**1,** 1920; **2,** 1920)

Colowick, Sidney P., Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., Baltimore 18, Md. *Assoc. Prof. of Biology* (**2,** 1944)

Coman, Dale R., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Exper. Pathology.* (**4,** 1939)

Comar, Cyril Lewis, Ph.D. Univ. of Tennessee, Atomic Energy Commission Agricultural Research Program, Oak Ridge. *Lab. Dir. and Research Coordinator.* (**5,** 1951)

Comroe, Julius H., Jr., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia. *Prof. of Physiology and Pharmacology.* (**1,** 1943; **3,** 1939)

Congdon, Charles C., M.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Med. Officer and Pathologist.* (**4,** 1953)

Conklin, Ruth E., Ph.D. Vassar College, Poughkeepsie, N. Y. *Prof. of Physiology.* (**1,** 1940)

Conn, Eric E., Ph.D. Univ. of California, Div. of Plant Nutrition, Berkeley 4. *Lecturer in Plant Nutrition; Asst. Plant Physiologist, Agriculture Expt. Station.* (**2,** 1952)

Conn, Jerome W., M.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Internal Medicine.* (**5,** 1942)

Consolazio, William V., B. S. National Science Foundation, Washington 25, D. C. *Program Dir. of Molecular Biology.* (**2,** 1949)

Cook, Donald Hunter, Ph.D. Univ. of Miami, Coral Gables 34, Fla. *Prof. of Chemistry.* (**2,** 1929)

Cook, Donald L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Pharmacologist.* (**3,** 1952)

Cooke, Robert A., A.M., M.D. 60 E. 58th St., New York City. *Dir. of Dept. of Allergy, Roosevelt Hospital.* (**6,** 1920)

Coolidge, Thomas B., M.D., Ph.D. Univ. of Chicago, Abbot Hall, Chicago 37, Ill. *Assoc. Prof., Dept. of Biochemistry and Walter G. Zoller Memorial Dental Clinic.* (**2,** 1942)

Coon, Julius M., M.D. Jefferson Med. College, Dept. of Pharmacology, 1025 Walnut St., Philadelphia 7, Pa. *Prof. and Chairman of Dept.* (**3,** 1941)

Coon, Minor J., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1952)

Coons, Albert H., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston 15, Mass. *Assoc. in Bacteriology and Immunology.* (**6,** 1950)

Coons, Callie Mae, Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition and Home Economics, Washington, D. C. *Asst. Chief.* (**5,** 1933)

Cooper, Merlin L., M.D. Children's Hospital Research Foundation, Elland Ave. and Bethesda, Cincinnati 29, Ohio. *Assoc. Prof. of Bacteriology; Asst. Prof. of Pediatrics, Univ. of Cincinnati College of Medicine.* (**6,** 1949)

Cooperman, Jack M., Ph.D. Hoffmann-LaRoche Inc., Nutley 10, N. J. *Sr. Research Biochemist.* (**5,** 1952)

Copeland, D. Eugene, Ph.D. 1027 N. Manchester St., Arlington 5, Va. *Assoc. Prof., Brown Univ.; on leave to Office of the Surgeon General, USAF Hqs., Washington, D. C.* (**1,** 1951)

Copley, Alfred Lewin, M.D. Centre International de l'Enfance, Lab. de Recherches, Chateau de Longchamp, Bois de Boulogne, Paris 16e, France. *Charge de Recherches de Laboratoire.* (**1,** 1944)

Copp, Douglas Harold, M.D., Ph.D. Univ. of British Columbia, Dept. of Physiology, Van-

couver, B.C., Canada. *Prof. and Head of Dept.* (**1,** 1951)

Corbin, Kendall B., M.D. 919 8th St., S.W., Rochester, Minn. *Consultant in Neurology, Mayo Clinic; Prof. of Neuroanatomy, Mayo Foundation.* (**1,** 1941)

Corcoran, Arthur Curtis, C.M., M.D. Cleveland Clinic Foundation, Cleveland 6, Ohio. *Asst. Dir., Research Div.* (**1,** 1940)

Corey, Edward Lyman, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (**1,** 1931)

Cori, Carl F., M.D. Washington Univ. School of Medicine, Kingshighway and Euclid Ave., St. Louis 10, Mo. *Prof. of Biochemistry.* (**2,** 1925; **3,** 1934)

Cori, Gerty T., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Biochemistry.* (**2,** 1927)

Corley, Ralph Conner, Ph.D. Purdue Univ., Dept of Chemistry, Lafayette, Ind. *Prof. of Biochemistry.* (**2,** 1927)

Cornatzer, W. E., Ph.D., M.D. Univ. of North Dakota Med. School, Dept. of Biochemistry, Grand Forks. *Prof. and Head of Dept.* (**2,** 1950)

Corper, Harry J., M.D., Ph.D. 1295 Clermont St., Denver 7, Colo. *Dir. of Research, Natl. Jewish Hospital and Univ. of Colorado School of Medicine.* (**2R,** 1912)

Corson, Samuel A., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. (**1,** 1943)

Cotten, Marion deVeaux, Ph.D. Med. College of South Carolina, Dept. of Pharmacology, Charleston 16. *Associate.* (**3,** 1953)

Cotts, Gerhard K., M.D. 1100 Church St., Lynchburg, Va. (**3,** 1937)

Co Tui, Frank W., M.D. Creedmoor Inst., Queens Village 27, N. Y. *Dir., Biologic Research.* (**3,** (1931)

Couch, James Russell, Ph.D. Texas A. & M. College, College Station. *Prof. of Poultry Husbandry, Biochemistry and Nutrition.* (**2,** 1953; **5,** 1950)

Cournand, Andre Frederic, M.D. Chest Service, Bellevue Hospital, C. D. Building, 1st Ave. at 28th St., New York City. *Prof. of Medicine, College of Physicians and Surgeons, Columbia Univ.* (**1,** 1944)

Cowen, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Neuropathology.* (**4,** 1951)

Cowgill, George Raymond, Ph.D. Yale Univ., Nutrition Lab., 333 Cedar St., New Haven 11, Conn. *Prof. of Nutrition.* (**1,** 1923; **2,** 1922; **5,** 1933)

Cox, Alvin J., Jr., M.D. Stanford Univ. School of Medicine, 2398 Sacramento St., San Francisco 15, Calif. *Prof. of Pathology.* (**4,** 1949)

Cox, Gerald J., Ph.D. Univ. of Pittsburgh School of Dentistry, Pittsburgh 13, Pa. *Prof. of Dental Research.* (**2,** 1930; **5,** 1935)

Cox, Herald R., Sc.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Dir., Virus Research.* (**6,** 1946)

Cox, Warren M., Jr., Ph.D. Mead Johnson & Co., Evansville, Ind. *Dir. of Research.* (**2,** 1935; **5,** 1945)

Craig, Francis Northrop, Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Applied Physiology Br.* (**1,** 1946)

Craig, L. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2,** 1938)

Crampton, E. W., Ph.D. McGill Univ., Macdonald College, Montreal, Quebec, Canada. *Prof. and Chairman, Dept. of Nutrition,* (**5,** 1940)

Crandall, Dana I., Ph.D. Univ. of Cincinnati, College of Medicine, Cincinnati 19, Ohio. *Assoc. Prof. of Biological Chemistry.* (**2,** 1951)

Crandall, Lathan A., Jr., M.D., Ph.D. Miles Labs., Inc., Elkhart, Ind. *Dir., Miles-Ames Research Labs.* (**1,** 1930)

Crane, Robert K., Ph.D. Washington Univ. Med. School, Dept. of Biological Chemistry, St. Louis 10, Mo. *Asst. Prof. of Biochemistry.* (**2,** 1953)

Cranston, Elizabeth M., Ph.D. Univ. of Minnesota Med. School, Dept. of Pharmacology, Minneapolis 14. *Asst. Prof.* (**3,** 1946)

Cravens, W. W., Ph.D. McMillen Feed Mills, Decatur, Ind. *Dir. of Feed Research and Nutrition.* (**5,** 1947)

Craver, Bradford N., Ph.D., M.D. Johnson & Johnson, Research Foundation, New Brunswick, N. J. *Director.* (**3,** 1946)

Crawford, Madeleine Field, Ph.D. 9 High Rock St., Needham, Mass. *Assoc. in Physiology, Harvard School of Public Health.* (**1,** 1933)

Crescitelli, Frederick, Ph.D. Univ. of California, Dept. of Zoology, Los Angeles. *Professor.* (**1,** 1946)

Cretcher, Leonard H., Ph.D. Univ. of Pittsburgh, Mellon Inst. of Industrial Research, Pittsburgh Pa. *Dir. of Research.* (**2R,** 1930)

Crider, Joseph O., M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (**1R,** 1935)

Criep, Leo N., M.D. May Bldg., 5th and Liberty, Pittsburgh, Pa. *Assoc. Prof. of Medicine.* (**6,** 1951)

Crisler, George R., Ph.D., M.D. 157 E. New England Ave., Winter Park, Fla. (**1,** 1930)

Crismon, Jefferson Martineau, M.D. Stanford Univ., Stanford, Calif. *Prof. and Executive of Dept. of Physiology.* (**1,** 1944)

Crittenden, Phoebe J., Ph.D. Goucher College, Dept. of Physiology and Bacteriology, Towson 4, Md. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937; **3,** 1937)

Cromartie, William J., M.D. Univ. of North Carolina, School of Medicine, Dept. of Bacteriology, Chapel Hill. *Assoc. Prof. of Bacteriology and Medicine.* (**4,** 1951)

Cronheim, Georg E., Ph.D. Riker Labs., Inc., 8480 Beverly Blvd., Los Angeles 48, Calif. *Dir., Biological Science Lab.* (**3,** 1951)

Crozier, William J., Ph.D. Harvard Univ., Biological Labs., Cambridge 38, Mass. *Research Prof. of General Physiology.* (**1,** 1928)

Crumpton, Charles W., M.D. Univ. of Wisconsin Med. School, Madison 6. *Asst. Prof. of Medicine.* (**3,** 1952)

Csaky, Tihamer Z., M.D. Univ. of North Carolina, School of Medicine, Dept. of Pharmacology, Chapel Hill. *Asst. Prof.* (**3,** 1952)

Csonka, F. A., Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition and Home Economics, Beltsville, Md. *Sr. Chemist.* (**2,** 1924)

Cullen, Stuart C., M.D. Univ. Hospitals, Iowa City, Iowa. *Asst. Prof. of Surgery; Chairman, Div. of Anesthesia.* (**3,** 1944)

Culler, Elmer A., Ph.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Psychology and Dir. of Lab.* (**1R,** 1936)

Cunha, Tony Joseph, Ph.D. Univ. of Florida, Dept. of Animal Husbandry, Gainesville. *Head of Dept.* (**5,** 1950)

Cunningham, Raymond W., Ph.D. Lederle Labs., Inc., Pearl River, N. Y. *Director, Pharmacology Research.* (**3,** 1941)

Cunningham, Robert Sydney, M.D., Sc.D. Sullivan's Island, S. C. (**1,** 1923)

Cureton, Thomas Kirk, Jr., Ph.D. Univ. of Illinois, School of Physical Education, Urbana. *Prof. of Physical Education.* (**1,** 1946)

Curnen, Edward C., M.D. Univ. of North Carolina, School of Medicine, Dept. of Pediatrics, Chapel Hill. *Prof. and Chairman of Dept.* (**6,** 1941)

Curran, Gladys B., Ph.D. Milbank, S. D. (**1,** 1946)

Curtis, George Morris, Ph.D., M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. of Surgery; Chairman, Dept. of Research Surgery.* (**4R,** 1933)

Curtis, Howard J., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biologist and Chairman, Biology Dept.* (**1,** 1940)

Curtis, Jack M., Ph.D. Food and Drug Admin., Div. of Pharmacology, Dept. of Health, Education and Welfare, Washington 25, D. C. *Pharmacologist; Asst. Div. Chief for Management.* (**2,** 1951)

Cushing, John E., Jr., Ph.D. Univ. of California, Santa Barbara College, Santa Barbara. *Asst. Prof. of Bacteriology.* (**6,** 1952)

Cutting, Windsor C., M.D. Stanford Univ. School of Medicine, San Francisco, Calif. *Prof. of Pharmacology.* (**3,** 1939)

Da Costa, Esther, Ph.D. U. S. Army Med. Nutrition Lab., Fitzsimons Army Hosp., Denver 8, Colo. *Physiologist.* (**1,** 1953; **5,** 1951)

Daft, Floyd Shelton, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases Bethesda, Md. *Director.* (**2,** 1949; **5,** 1941)

Daggs, Ray Gilbert, Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Dir. of Research.* (**1,** 1935; **5,** 1933)

Dahl, Lewis Kitchener, M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Scientist* (**4,** 1953)

Dale, Sir Henry H., M.D., F.R.S. The Wellcome Trust, 28 Portman Sq., London W. 1, England. (**3H,** 1926)

Dalldorf, Gilbert, M.D. New York State Dept. of Health, Albany. *Asst. Commissioner, Div. of Labs. and Research.* (**4,** 1947; **6,** 1952)

Dalton, Albert J., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4,** 1942)

Dam, Henrik, Ph.D. Polytechnic Inst., Dept. of Biochemistry and Nutrition, Øster Voldgade 10 L, Copenhagen K, Denmark. *Prof. and Dir. of Dept.* (**2,** 1944; **5,** 1943)

D'Amour, Fred E., Ph.D. Univ. of Denver, Denver 10, Colo. *Chairman, Dept. of Zoology.* (**1,** 1934)

D'Amour, Marie C., Ph.D., M.D. Olive View Sanatorium, Olive View, Calif. (**1,** 1934)

D'Angelo, Savino A., Ph.D. Jefferson Med. College, Dept. of Anatomy, 307 S. 11th St., Philadelphia, Pa. *Assoc. Prof.* (**1,** 1947)

Daniel, Louise J., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1949)

Daniels, Amy L., Ph.D. 720 N. Van Buren St., Iowa City, Iowa. (**2R,** 1919; **5R,** 1933)

Danielson, Irvin S., Ph.D. Lederle Labs., American Cyanamid Co., Pearl River, N. Y. *Mgr., Virus and Rickettsial Production.* (**2,** 1937)

Danowski, T. S., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Renziehausen Prof. of Research Medicine.* (**1,** 1947)

Darby, William J., M.D., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Prof. of Biochemistry; Dir., Div. of Nutrition.* (**2,** 1949; **5,** 1945)

Darling, Robert Croly, M.D. 157 Glenwood Ave., Leonia, N. J. *Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, New York City 32.* (**1,** 1944)

Darrow, Chester W., Ph.D. Inst. for Juvenile Research, 907 S. Wolcott Ave., Chicago, Ill. *Psychophysiologist; Assoc. Prof. of Criminology, Univ. of Illinois College of Medicine.* (**1,** 1937)

Darrow, Daniel Cady, M.D. Yale Univ. School of Medicine, New Haven 4, Conn. *Prof. of Pediatrics.* (**2,** 1936)

Daubert, B. F., Ph.D. Koppers Co., Inc., Koppers Bldg., Pittsburgh, Pa. *Asst. Mgr., Lab. Sec.—Research.* (**2,** 1947)

Daum, Kate, Ph.D. Univ. Hospitals, Nutrition Dept., Iowa City, Iowa. *Dir., Prof. of Dietetics, State Univ. College of Medicine.* (**5,** 1951)

Davenport, Fred. M., M.D., D.M.Sc. Univ. of Michigan, School of Public Health, Ann Arbor. *Assoc. Prof. Epidemiology and Medicine.* (**6,** 1950)

Davenport, Horace Willard, Ph.D. Univ. of Utah, Dept. of Physiology, Salt Lake City 1. *Prof. and Head of Dept.* (**1,** 1942)

Davenport, Virginia D., Ph.D. Univ. of Utah College of Medicine, Salt Lake City. *Research Assoc. in Physiology.* (**1,** 1950)

David, Norman Austin, M.D. Univ. of Oregon Med. School, Portland. *Prof. of Pharmacology.* (**3,** 1934)

Davidow, Bernard, Ph.D. Food and Drug Administration, 12th and C Sts., S.W., Washington, D. C. *Pharmacologist.* (**3,** 1953)

Davidsohn, Israel, M.D. Mount Sinai Hospital, 2750 W. 15th Pl., Chicago 8, Ill. *Pathologist and Dir. of Labs., Chicago Med. School; Prof. of Pathology and Chairman of Dept.* (**4,** 1939; **6,** 1929)

Davidson, Charles S., M.D. Boston City Hospital, Thorndike Memorial Lab., Boston 18, Mass. *Assoc. Prof. of Medicine, Harvard Med. School; Assoc. Dir., 2nd and 4th Med. Services, Boston City Hospital.* (**5,** 1949)

Davies, Dean F., Ph.D., M.D. Washington Univ. School of Medicine, Dept. of Internal Medicine, Hypertension Div., St. Louis 10. Mo. *Assoc. Dir.* (**1,** 1951)

Davies, Philip W., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. *Asst. Prof.* (**1,** 1948)

Davis, Bernard D., M.D. Cornell Univ. Med. College, New York City. *Research Assoc; Sr. Surgeon, USPHS.* (**2,** 1953; **6,** 1948)

Davis, Dorland J., M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Sec. on Epidemiology.* (**6,** 1952)

Davis, George Kelso, Ph.D. Nutrition Lab., Animal Industry Dept., Agricultural Exper. Station, Gainesville, Fla. *Prof. of Nutrition, Univ. of Florida, Florida Agricultural Exper. Station.* (**5,** 1944)

Davis, Hallowell, M.D. Central Inst. for the Deaf, 818 S. Kingshighway, St. Louis 10, Mo. *Dir. of Research.* (**1,** 1925)

Davis, Harry A., M.D. College of Med. Evangelists, Dept of Surgery, 2007 Wilshire Blvd., Los Angeles 5, Calif. *Clin. Prof. of Surgery.* (**4,** 1944)

Davis, John Emerson, Ph.D. Univ. of Texas College of Pharmacy, Austin. *Prof. of Pharmacology.* (**1,** 1941; **3,** 1941)

Davis, M. Edward, M.D. Chicago Lying-In Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Joseph Bolivar de Lee Prof. of Obstetrics, Univ. of Chicago.* (**3,** 1950)

Dawson, Charles R., Ph.D. Columbia Univ., Broadway and 116th St., New York City 27. *Assoc. Prof. of Chemistry.* (**2,** 1946)

Dawson, James Robertson, Jr., M.D. Univ. of Minnesota School of Medicine, Minneapolis 14. *Prof. of Pathology.* (**4,** 1940)

Dawson, Percy M., M.D. 97 E. Portola Ave., Los Altos, Calif. (**1R,** 1900)

Day, Harry G., Sc.D. Indiana Univ., Dept. of Chemistry, Bloomington. *Prof. and Chairman of Dept.* (**2,** 1948; **5,** 1940)

Day, Paul L., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Biochemistry.* (**2,** 1934; **5,** 1933)

De, N. N., M.B. Central Drug Research Inst., Chattar Manjil Palace, Lucknow, U.P., India. *Asst. Dir.* (**3,** 1948)

Dearborn, Earl H., Ph.D., M.D. Boston Univ., School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Pharmacology.* (**3,** 1946)

de Beer, Edwin J., Ph.D. The Wellcome Research Labs., Tuckahoe, N. Y. *Acting Dir. of Research; Head, Dept. of Pharmacology.* (**3,** 1944)

de Bodo, Richard C., M.D. 477 First Ave., New York City. *Assoc. Prof. of Pharmacology, New York Univ. College of Medicine.* (**1,** 1932; **3,** 1931)

De Boer, Benjamin, Ph.D. Univ. of North Dakota School of Medicine, Grand Forks. *Prof. of Physiology and Pharmacology.* (**1,** 1947; **3,** 1948)

DeBoer, Carl J., Ph.D. Ciba Pharmaceutical Products, Div. of Microbiology, Summit, N. J. *Sr. Virologist.* (**6,** 1951)

DeEds, Floyd, Ph.D. 344 Santa Ana Ave., San Francisco, Calif. *Principal Pharmacologist, Western Regional Research Lab., Albany, Calif.* (**2,** 1937; **3,** 1927)

Defandorf, James Holmes, Ph.D. 130 Hesketh St., Chevy Chase, Md. *Consultant, Biological and Chemical Warfare Defense, Fed. Civil Defense Administration.* (**3,** 1940)

de Gara, Paul F., M.D. 876 James St., Pelham Manor 65, N. Y. *Asst. Prof. of Clinical Pediatrics in Allergy, Cornell Univ. Med. College; Physician and Pediatrician to Out-Patients, New York Hospital.* (**6,** 1941)

DeGraff, Arthur C., M.D. New York Univ. College of Medicine, New York City. *Prof. of Therapeutics.* (**1,** 1950; **3,** 1937)

de Gutierrez-Mahoney, C. G., M.D. St. Vincent's Hospital, New York City. *Dir., Neurological Div. and Neurosurgeon-in-Chief.* (**1,** 1940; **4,** 1941)

Deichmann, William B., Ph.D. Univ. of Miami, School of Medicine, Dept. of Pharmacology, Coral Gables, Fla. *Chairman of Dept.* (**3,** 1941)

Delgado, Jose M. R., M.D. Yale Univ., School of Medicine, New Haven, Conn. *Asst. Prof. of Neurophysiology.* (**1,** 1952)

Delory, George Edward, Ph.D. (Lond.). Univ. of Manitoba Med. College, Biochemistry Dept., Bannatyne and Emily, Winnipeg, Canada. *Assoc. Prof.* (**2,** 1951)

del Pozo, E. C., M.D. Av. Juarez No. 151, Coyoaca, D. F. 21, Mexico. (**1,** 1943)

De Meio, Romano Humberto, Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof. of Biochemistry.* (**2,** 1951)

Dempsey, Edward W., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Anatomy.* (**1,** 1940)

Dennis, Emery W., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Dir., Biology Div.* (**3,** 1952; **6,** 1952)

Denslow, J. S., D.O. Kirksville College of Osteopathy, Still Memorial Research Trust, Kirksville, Mo. *Prof.; Dir., Research Affairs.* (**1,** 1949)

Denstedt, Orville F., Ph.D. McGill Univ., Dept. of Biochemistry, Montreal, Que., Canada. *Assoc. Prof.* (**2,** 1948)

Derbyshire, Arthur J., Ph.D. Harper Hospital, EEG Dept., Detroit, Mich. (**1,** 1939)

de Savitsch, Eugene, M.D. 2132 R St., N.W., Washington 8, D. C. *Surgeon (R) USPHS; Consulting Surgeon, Home for Incurables.* (**4,** 1934)

Dethier, Vincent G., Ph.D. Johns Hopkins Univ., Dept. of Biology, Baltimore 18, Md. *Prof.* (**1,** 1950)

Dettwiler, Herman A., Ph.D. Eli Lilly and Co., Indianapolis, Ind. *Dir., Biological Production Div.* (**6,** 1946)

DeTurk, William E., Ph.D., M.D. Box 3105, Duke Hospital, Durham, N. C. *Asst. Prof. of Pharmacology, Duke Univ.* (**3,** 1953)

Deuel, Harry J., Jr., Ph.D. Univ. of Southern California, Los Angeles. (**1,** 1928; **2,** 1924; **5,** 1933)

Deulofeu, Venancio, D. Chem. Casilla Correo 2539, Buenos Aires, Argentina. *Prof. of Organic Chemistry, Univ. of Buenos Aires.* (**2,** 1942)

Deutsch, Harold F., Ph.D. Univ. of Wisconsin. Dept. of Physiological Chemistry, Madison 6, *Assoc. Prof.* (**2,** 1948)

Dewey, Virginia C., Ph.D. Amherst College, Biological Lab., Amherst, Mass. *Research Assoc., Dept. of Biology.* (**2,** 1949)

Dews, Peter B., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Instructor in Pharmacology.* (**3,** 1953)

Dexter, Lewis, M.D. Peter Bent Brigham Hospital, 721 Huntington Ave., Boston, Mass. *Asst. Prof. of Medicine, Harvard Med. School.* (**1,** 1951)

Dey, Frederick L., Ph.D., M.D., 15 South Ave., Niantic, Conn. (**1,** 1945)

Deyrup, Ingrith J., Ph.D. Barnard College, Columbia Univ., Dept. of Zoology, New York City 27. *Asst. Prof.* (**1,** 1949)

Dickison, H. L., Ph.D. Bristol Labs., Inc., Bldg. 6, Syracuse 1, N. Y. *Dir., Pharmacological Research; Lecturer in Pharmacology, State Univ. Med. Center at Syracuse.* (**5,** 1946)

Dickman, Sherman R., Ph.D. Univ. of Utah, 205 Cancer Research Bldg., Salt Lake City. *Assoc. Prof. of Biochemistry.* (**2,** 1951)

Dieckmann, William J., M.D. The Chicago Lying-In Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Prof. of Obstetrics and Gynecology, Univ. of Chicago.* (**3,** 1947)

Dienes, Louis, M.D. Massachusetts General Hospital, Boston. *Consultant Bacteriologist.* (**6,** 1924)

Diermeier, Harold F., Ph.D. State Univ. of New York Med. College, Syracuse 10. *Asst. Prof. of Pharmacology.* (**3,** 1953)

Dill, David Bruce, Ph.D. Med. Labs., Army Chemical Center, Md. *Scientific Dir.* (**1,** 1941; **2,** 1927; **5,** 1936)

Dille, James M., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer, Dept. of Pharmacology.* (**3,** 1939)

Dillon, Robert T., Ph.D. G.D. Searle and Co., Box 5110, Chicago 80, Ill. *Head, Analytical Div.* (**2,** 1934)

Dingle, John H., Sc.D., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Prof. of Preventive Medicine.* (**6,** 1941)

Dinning, James S., Ph.D. Univ. of Arkansas School of Medicine, Dept. of Biochemistry, Little Rock, Ark. *Assoc. Prof.* (**5,** 1953)

Di Palma, Joseph R., M.D. Hahnemann Med. College, Dept. of Pharmacology, 230 N. Broad St., Philadelphia, Pa. *Prof. and Head of Dept.* (**1,** 1943; **3,** 1951).

Dische, Zacharias, M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Ophthalmology, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1944)

Dittmer, Karl, Ph.D. Florida State Univ., Dept. of Chemistry, Tallahassee. *Head of Dept.* (**2,** 1950)

Dixon, Frank James, Jr., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Professor.* (**4,** 1951; **6,** 1950)

Dixon, Harold M., M.D. Veterans Admin. Regional Office, San Diego, Calif. (**4,** 1936)

Doan, Charles A., M.D. Ohio State Univ. College of Medicine, Columbus. *Dean; Dir., Med. Research; Prof. of Medicine.* (**4,** 1928)

Dochez, A. Raymond, M.D. 1 W. 54 St., New York City 19. (**4R,** 1917; **6R,** 1922)

Dodd, Matthew C., Ph.D. Ohio State Univ., Dept. of Bacteriology, Columbus 10. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1950)

Dodds, Mary L., Ph.D. Pennsylvania State Col-

lege, State College. *Prof., Foods and Nutrition Research.* (**5,** 1948)

Dohan, F. Curtis, M.D. 80 Princeton Rd., Cnywyd, Pa. *Assoc. in Clinical Medicine, Univ. of Pennsylvania.* (**1,** 1941)

Doherty, David G., Ph.D. 411 East Drive, Oak Ridge, Tenn. *Sr. Biochemist, Oak Ridge Natl. Lab., Biology Div.* (**2,** 1953)

Doisy Edward A., Sr., Ph.D. St. Louis Univ. School of Medicine, St. Louis 4, Mo. *Prof. of Biological Chemistry and Dir. of Dept.* (**2,** 1920)

Doisy, Edward A., Jr., M.D. St. Louis Univ. School of Medicine, Dept. of Internal Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Asst. Prof.* (**2,** 1951)

Dolman, C. E., D.P.H., Ph.D. Univ. of British Columbia, Vancouver, B. C., Canada. *Prof. and Head, Dept. of Bacteriology and Preventive Medicine.* (**6,** 1947)

Dominguez, Rafael, M.D. St. Luke's Hospital, Cleveland 4, Ohio. *Dir., Div. Pathology.* (**1,** 1935)

Domino, Edward F., M.D., Univ. of Michigan Med. School, Dept. of Pharmacology, Ann Arbor. *Instructor in Pharmacology.* (**3,** 1953)

Donahue, D. D., D.Sc. 4228 Military Rd., N.W., Washington 15, D. C. (**3,** 1941)

Dooley, M. S., M.D. State Univ. Med. Center at Syracuse Univ., Syracuse, N. Y. *Prof. of Pharmacology.* (**3R,** 1923)

Dorfman, Albert, PhD., M.D. Univ. of Chicago, Dept. of Pediatrics, 920 E. 59th St., Chicago, Ill. *Assoc. Prof.* (**2,** 1948)

Dorfman, Ralph I., Ph.D. Worcester Fndn. for Experimental Biology, 222 Maple Ave., Shrewsbury, Mass. *Assoc. Dir. of Labs. and Research; Prof. of Biochemistry, Boston Univ.* (**2,** 1940)

Dotti, Louis Basil, Ph.D. St. Luke's Hospital, Amsterdam Ave. and 113th St., New York City. *Asst. Dir. of Labs.* (**1,** 1937)

Doty, J. Roy, Ph.D. American Dental Assoc., 222 E. Superior St., Chicago, Ill. *Secretary, Council on Dental Therapeutics.* (**2,** 1941)

Doty, Robert W., Ph.D. 4148 S. 20th East, Salt Lake City 7, Utah. *Asst. Prof., Dept. of Physiology, Univ. of Utah.* (**1,** 1951)

Doudoroff, Michael, Ph.D. Univ. of California, Dept. of Bacteriology, 3519 Life Sciences Bldg., Berkeley 4. *Prof. of Bacteriology.* (**2,** 1946)

Dougherty, Robert W., D.V.M., M.S. New York State Veterinary College, Cornell Univ., Ithaca, N. Y. *Prof. of Veterinary Physiology.* (**1,** 1951)

Dougherty, Thomas F., Ph. D. Univ. of Utah School of Medicine, Dept. of Anatomy, Salt Lake City. *Prof. and Chairman of Dept.* (**1,** 1950)

Doull, John, Ph.D., M.D. Univ. of Chicago, USAF Radiation Lab., Chicago 37, Ill. *Research Assoc.; Asst. Prof.* (**3,** 1953)

Dounce, Alexander L., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester, N. Y. *Instr. in Biochemistry, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1944)

Doupe, Joseph, M.D. Medical College, Dept. of Physiology and Med. Research, Bannatyne and Emily, Winnipeg, Manitoba, Canada. *Prof. and Chairman of Dept.* (**1,** 1949)

Dow, Philip, Ph.D. Medical College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1939)

Dow, Robert S., M.D., Ph.D. Univ. of Oregon Med. School, Portland, *Assoc. Prof. of Anatomy.* (**1,** 1940)

Downs, Ardrey W., M.D., D.Sc. Univ. of Alberta, Edmonton, Alberta, Canada, *Emeritus Prof. of Physiology and Pharmacology.* (**1R,** 1917)

Downs, Cornelia M., Ph.D. Route 2, Lawrence, Kans. *Prof. of Bacteriology, Univ. of Kansas.* (**6,** 1929)

Doyle, William Lewis, Ph.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. (**1,** 1946)

Drabkin, David L., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia 4. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**2,** 1928; **5,** 1934)

Dragstedt, Carl A., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1928; **3,** 1932)

Dragstedt, Lester R., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago, Ill. *Prof. and Chairman of Dept. of Surgery.* (**1,** 1920)

Draize, J. H., Ph.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Pharmacologist.* (**3,** 1940)

Drake, T. G. H., M.B. Univ. of Toronto, Toronto, Canada. *Asst. Prof. of Pediatrics, Dept. of Medicine; Dir., Research Lab., Hospital for Sick Children.* (**5,** 1936)

Draper, William B., M.Sc., M.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. of Physiology and Pharmacology.* (**1,** 1947; **3,** 1938)

Dreisbach, Robert H., Ph.D., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Dreyer, Nicholas Bernard, M.A. Woman's Med. College of Pennsylvania, Philadelphia 29. *Prof. of Physiology and Pharmacology.* (**3,** 1942)

Drill, Victor Alexander, Ph.D., M.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Prof. of Pharmacology.* (**1,** 1943; **3,** 1946)

Drinker, Cecil K., M.D. P. O. Box 502, Falmouth, Mass. (**1,** 1915)

Dripps, Robert D., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Anesthesiology.* (**1,** 1947; **3,** 1945)

Driver, Robert L., Ph.D., M.D. 731 Baker St., San Francisco, Calif. (**1,** 1945; **3,** 1947)

Drury, Douglas R., M.D. Univ. of Southern

California, Los Angeles. *Prof. of Physiology.* (**1,** 1932)

Dubin, Harry E., Ph.D. HED Pharmaceuticals, Inc., 43 Carlton Rd., New Rochelle, N. Y. *President.* (**2,** 1925)

Dubin, Isadore N., M.D. Armed Forces Inst. of Pathology, Washington 25, D. C. *Chief, Hepatic Pathology Sec.* (**4,** 1947)

Dubnoff, Jacob W., Ph.D. 1201 E. California St., Pasadena 4, Calif. *Sr. Research Fellow, California Inst. of Technology.* (**2,** 1946)

DuBois, Eugene F., M.D. Cornell Univ. Med. School, 1300 York Ave., New York City. *Emeritus Prof. of Physiology and Biophysics.* (**1,** 1913; **3R,** 1921; **5R,** 1935)

Du Bois, Kenneth P., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago 37, Ill. *Assoc. Prof.* (**3,** 1946)

Dubos, Rene J., Ph.D., D.Sc. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Head of Dept. of Bacteriology.* (**6,** 1938)

Duffy, Carl E., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Bacteriology and Parasitology.* (**6,** 1951)

Dugal, L. Paul, Ph.D. Laval Univ. Med. School, Research Dept. on Acclimatization, Quebec City, Canada. *Dir. and Prof., Exper. Physiology.* (**1,** 1947)

Duggan, Edward L., Ph.D. Univ. of California Med. School, Berkeley, *Asst. Prof. of Physiological Chemistry.* (**2,** 1951)

Dukes, H. H., D.V.M., M.S. Cornell Univ., New York State Veterinary College, Ithaca. *Prof. of Veterinary Physiology.* (**1,** 1934)

Dulaney, Anna D., Ph.D. Univ. of Tennessee, Pathological Inst., Memphis. *Assoc. Prof. of Bacteriology, Med. School.* (**6,** 1924)

Dumke, Paul Rudolph, M.D. Henry Ford Hospital, West Grand Blvd. and Hamilton Ave., Detroit 2, Mich. *Dir., Sec. of Anesthesiology.* (**3,** 1942)

Dumm, Mary E., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Adjunct Asst. Prof. of Chemistry.* (**1,** 1950)

Dunham, Wolcott B., M.D. V. A. Med. Teaching Group, Kennedy Hospital, Memphis 15, Tenn. *Dir., General Research Lab.* (**6,** 1951)

Dunlap, Charles E., M.D. Tulane Univ. of Louisiana, 1430 Tulane Ave., New Orleans. *Prof. of Pathology.* (**4,** 1942)

Dunn, Arthur L., Ph.D. VA Hospital, Radioisotope Unit, 4101 Woolworth Ave., Omaha 5. *Principal Scientist.* (**1,** 1951)

Dunn, Max Shaw, Ph.D. Univ. of California, Los Angeles. *Prof. of Chemistry; Prof. of Physiological Chemistry.* (**2,** 1933)

Dunn, Thelma Brumfield, M.D. Natl. Cancer Inst., Bethesda, Md. *Med. Officer.* (**4,** 1945)

Durlacher, Stanley H., M.D. Louisiana State Univ. School of Medicine, Dept. of Pathology, New Orleans 12. *Assoc. Prof.* (**1,** 1949)

Dury, Abraham, Ph.D. Bradford Hospital, Interstate Pkwy., Bradford, Pa. *Dir., Dorn Lab. for Med. Research.* (**1,** 1948)

Duryee, William R., Ph.D. Carnegie Inst., Dept. of Terrestrial Magnetism, Washington 15, D. C. *Head, Cellular Physiology Unit, Natl. Cancer Inst., Natl. Insts. of Health.* (**1,** 1952)

Dutcher, James D., Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dept. Head, Div. of Organic Chemistry.* (**2,** 1946)

Dutcher, R. Adams, D.Sc. 254 E. Hamilton Ave., State, College Pa. *Prof. Emeritus, Dept. of Agriculture and Biochemistry, Pennsylvania State College.* (**2R,** 1920; **5R,** 1933)

Duval, Charles Warren, M.D. Sacred Heart Hospital, Pensacola, Fla. *Prof. Emeritus of Pathology and Bacteriology, Tulane Univ.* (**4,** 1913)

du Vigneaud, Vincent, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Biochemistry.* (**2,** 1929; **5,** 1934)

Dworkin, Simon, D.D.S., M.D. McGill Univ., Biology Building, Montreal, Quebec, Canada. *Lecturer in Physiology, Faculty of Medicine.* (**1,** 1931)

Dye, J. A., Ph.D. Cornell Univ., James Law Hall, Ithaca, N. Y. *Prof. of Physiology.* (**1,** 1929)

Dye, Marie, Ph.D. Michigan State College, East Lansing. *Dean, School of Home Economics.* (**2,** 1929; **5,** 1933)

Dyer, Helen M., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Chemist.* (**2,** 1936; **5,** 1937)

Dziemian, Arthur J., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Wound Ballistics Br.* (**1,** 1948)

Dziewiatkowski, Dominic D., Ph.D. Rockefeller Inst. for Med. Research, Hospital, 66th St. and York Ave., New York City 21. *Assoc., Dept. of Biochemistry.* (**2,** 1950)

Eadie, George S., Ph.D. Duke Univ. School of Medicine, Box 3709, Durham, N. C. *Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1940)

Eagle, Edward, Ph.D. Swift and Co., Research Labs., Chicago 9, Ill. *Head, Div. of Physiology and Toxicology.* (**1,** 1950; **3,** 1953)

Eagle, Harry, M.D. Natl. Insts. of Health, Bethesda, Md. *Chief of Section on Exper. Therapeutics, Microbiological Inst.* (**3,** 1946; **4,** 1936; **6,** 1953)

Eakin, Robert E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Assoc. Prof. of Chemistry.* (**2,** 1948)

Earle, D. P., Jr., M.D., Med. Sc. D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (**1,** 1947)

Earle, Wilton R., Ph.D. Natl. Cancer Inst.,

Bethesda, Md. *Cytologist; Head of Tissue Culture Unit, Biology Sec.* (**4,** 1940)

Eaton, Monroe D., M.D. Harvard Med. School, Boston, Mass. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1937)

Eccles, John Carew, Ph.D. Australian Natl. Univ., Dept. of Physiology, Canberra. *Professor.* (**1H,** 1952)

Eckenhoff, James E., M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Assoc. Prof. of Anesthesiology.* (**1,** 1948)

Ecker, E. E., Ph.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland, Ohio. *Prof. of Immunology.* (**4,** 1925; **6,** 1947)

Eckstein, Gustav, M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Physiology.* (**1,** 1948)

Eckstein, Henry C., Ph.D. Univ. of Michigan, 320 W. Med. Building, Ann. Arbor. *Prof. of Biological Chemistry.* (**2,** 1925)

Eckstein, R. W., M.D. Western Reserve Univ., Dept. of Medicine, Cleveland, Ohio. *Asst. Prof. of Medicine and Physiology.* (**1,** 1947)

Eddy, Bernice E., Ph.D. Natl. Insts. of Health, Inst. of Microbiology, Bethesda 14, Md. *Sr. Bacteriologist.* (**6,** 1949)

Eddy, Nathan B., M.D. Natl. Insts. of Health, Bethesda, Md. *Med. Officer.* (**3,** 1929)

Eddy, Walter H., Ph.D. American Chlorophyll Div., Shonig Cobb Co., Lake Worth, Fla. *Scientific Dir.* (**2R,** 1913; **5R,** 1933)

Edelmann, Abraham, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Physiologist.* (**1,** 1948)

Ederstrom, H. E., Ph.D. Univ. of North Dakota, School of Medicine, Dept. of Physiology, Grand Forks. *Professor.* (**1,** 1949)

Edholm, O. G., M.B. Natl. Inst. for Med. Research, Hampstead, London, N.W. 3, England. *Head, Dept. of Human Physiology.* (**1,** 1948)

Edsall, Geoffrey, M.D. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Dir., Immunology Div.* (**6,** 1943)

Edsall, John Tileston, M.D. Harvard Med. School, Univ. Lab., Boston, Mass. *Prof. of Biological Chemistry.* (**2,** 1931)

Edwards, Dayton J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Physiology; Asst. Dean.* (**1,** 1921)

Edwards, Jesse E., M.D. Mayo Clinic, Rochester 4, Minn. *Assoc. Prof. of Pathologic Anatomy, Mayo Foundation.* (**4,** 1941)

Edwards, J. Graham, Ph.D. 3435 Main St., Buffalo, N. Y. *Assoc. Prof. of Anatomy, Univ. of Buffalo.* (**1,** 1932)

Edwards, Leslie E., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond. *Assoc. Prof.* (**1,** 1950)

Eggerth, Arnold H., Ph.D. Hoagland Lab., 335 Henry St., Brooklyn, N. Y. *Assoc. Prof. of Microbiology and Immunology, State Univ. Med. Center at New York.* (**4,** 1925)

Ehrenstein, Maximilian R., Ph.D. Univ. of Pennsylvania Hospital, 806 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4. *Prof. of Physiological Chemistry, Univ. of Pennsylvania School of Medicine.* (**2,** 1942)

Ehrich, William E., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Pathology, Grad. School of Medicine; Chief, Div. of Pathology, Philadelphia General Hospital.* (**4,** 1945)

Eichelberger, Lillian, Ph.D. Univ. of Chicago, Dept. of Surgery, Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1937)

Eichna, Ludwig W., M.D. New York Univ. College of Medicine, Dept. of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Medicine; Visiting Physician, Bellevue Hosp.* (**1,** 1949)

Eichwald, Ernest J. Univ. of Utah College of Medicine, Salt Lake City. *Assoc. Prof.* (**4,** 1953)

Eiler, John J., Ph.D. Univ. of California Med. Center, San Francisco 22. *Prof. of Biochemistry.* (**2,** 1948)

Eisen, Herman N., M.D. New York Univ.-Bellevue Med. Center, Inst. of Industrial Medicine, 477 First Ave., New York City 16. *Assoc. Prof.* (**6,** 1951)

Eisenbrandt, Leslie L., Ph.D. Univ. of Kansas City, 5100 Rockhill Rd. Kansas City 10, Mo. *Prof. of Pharmacology; Dean, School of Pharmacy.* (**3,** 1951)

Eisenman, Anna J., Ph.D. U. S. Public Health Service Hospital, Lexington, Ky. *Biological Chemist.* (**2,** 1930)

Elberg, Sanford S., Ph.D. Univ. of California, Dept. of Bacteriology, Berkeley 4. *Prof. and Chairman of Dept.* (**6,** 1948)

Elderfield, Robert C., Ph.D. Univ. of Michigan, 2020 Chemistry Bldg., Ann Arbor. *Prof. of Chemistry.* (**2,** 1934)

Elftman, Herbert, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Assoc. Prof. in Anatomy.* (**1,** 1940)

Elion, Gertrude B., M.S. 25 Park View Ave., Bronxville 8, N. Y. *Sr. Biochemist, Wellcome Research Labs.* (**2,** 1952)

Eliot, Martha M., M.D. 5005 Jamestown Rd., Washington 16, D. C. (**5,** 1933)

Elkinton, J. Russell, M.D. Univ. of Pennsylvania Hospital, Dept. of Medicine, Philadelphia. (**1,** 1947)

Elliott, Henry W., Ph.D., M.D. Univ. of California Med. School, San Francisco 22. *Asst. Prof. of Pharmacology.* (**3,** 1948)

Elliott, K. Allan C., Sc.D., Ph.D. Montreal Neurological Inst., 3801 Univ. St., Montreal, Que., Canada. *Assoc. Prof. of Exper. Neurology and Biochemistry.* (**2,** 1937)

Elliott, William H., Ph.D. St. Louis Univ., School

of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Biochemistry.* (**2,** 1952)

Ellis, C. H., Ph.D. Wellcome Research Labs., Tuckahoe 7, N. Y. *Sr. Pharmacologist.* (**1,** 1947)

Ellis, Frederick W., M.D., Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Ellis, Lillian N., Ph.D. Adelphi College, Garden City, Long Island, N. Y. *Professor.* (**5,** 1940)

Ellis, N. R., M.S. U. S. Dept. of Agriculture, Bureau of Animal Industry, Beltsville, Md. *Asst. Chief, Animal Husbandry Div.* (**2,** 1928; **5,** 1933)

Ellis, Sydney, Ph.D. Temple Univ. Med. School, Dept. of Pharmacology, Philadelphia, Pa. *Assoc. Prof.* (**3,** 1947)

Elmadjian, Fred, Ph.D. Box 57, Worcester, Mass. *Staff Member, Worcester Foundation for Exper. Biology.* (**1,** 1950)

Elvehjem, Conrad Arnold, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Professor.* (**2,** 1931; **5,** 1933)

Embree, Norris Dean, Ph.D. Distillation Products Industries. Rochester 3, N. Y. *Dir. of Research.* (**2,** 1946)

Emerson, George A., Ph.D. Univ. of Texas, Med. Branch, Galveston. *Prof. of Pharmacology.* (**3,** 1935)

Emerson, Gladys A., Ph.D. Merck Inst. of Therapeutic Research, Rahway, N. J. *Head, Dept. of Animal Nutrition.* (**5,** 1942)

Emery, Frederick E., D.V.M., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Physiology and Pharmacology.* (**1,** 1930)

Emmart, Emily W., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cytologist.* (**3,** 1947)

Enders, John F., Ph.D. Children's Med. Center, 300 Longwood Ave., Boston, Mass. *Chief, Research Div. of Infectious Diseases; Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1936)

Endicott, Kenneth M., M.D. USPHS, Natl. Insts. of Health, Bethesda 14, Md. *Scientific Dir., Div. of Research Grants.* (**4,** 1947)

Engel, Frank L., M.D. Duke Univ. School of Medicine, Durham, N. C. *Assoc. Prof. of Medicine and Physiology.* (**1,** 1947)

Engel, Lewis L., Ph.D. Massachusetts General Hospital, Boston 14. *Asst. Prof. of Biological Chemistry, Harvard Med. School (at the Mass. Gen. Hospital); Tutor in Biochemical Sciences, Harvard College.* (**2,** 1949)

Engle, Ruben W., Ph.D. Virginia Polytechnic Inst., Dept. of Biochemistry and Nutrition, Blacksburg. (**5,** 1948)

Engle, Earl Theron, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Anatomy.* (**1,** 1930)

English, James, Jr., Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Asst. Prof. of Chemistry.* (**2,** 1946)

Enright, John B., Ph.D. Univ. of California, School of Veterinary Medicine, Davis. *Assoc. Prof.* (**6,** 1948)

Entenman, Cecil, Ph.D. U. S. Naval Radiological Defense Lab., San Francisco 24, Calif. *Head, Biochemistry Branch.* (**1,** 1953)

Epstein, Albert A., M.D. 1111 Madison Ave., New York City. (**2R,** 1912)

Ercoli, N., M.D., Ph.D. Inst. Armour Labs., 1425 W. 42nd St., Chicago, Ill. *Head of Pharmacology.* (**3,** 1947)

Erickson, Cyrus C., M.D. Univ. of Tennessee, Inst. of Pathology, Memphis 3. *Prof. of Pathology.* (**4,** 1941)

Erickson, John Otto, Ph.D. Veterans Admin. Center, Radioisotope Lab., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Biophysicist.* (**6,** 1946)

Erlanger, Joseph, M.D., Sc.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. Emeritus of Physiology.* (**1R,** 1901)

Ershoff, Benjamin H., Ph.D. 2457 Fletcher Drive, Los Angeles 39, Calif. *Research Assoc., Dept. of Biochemistry and Nutrition, Univ. of Southern California; Scientific Dir., Emory W. Thurston Labs., Los Angeles.* (**5,** 1950)

Eschenbrenner, Allen B., M.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. (**4,** 1946)

Espe, Dwight L., Ph.D. U.S.D.A., Office of Exper. Stations, Washington 25, D. C. *Administrator.* (**1,** 1940)

Essex, Hiram E., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiology Grad. School, Univ. of Minn. under the Mayo Fndn.* (**1,** 1932; **3,** 1940)

Essig, Carl F., M.D. 5 Bailey Ave., Milton, Mass. *Sr. Asst. Surgeon, USPHS.* (**1,** 1952)

Ettinger, C. H., M.D., C.M. Queen's Univ., Kingston, Ontario, Canada. *Prof. of Physiology; Asst. Dir., Div. of Med. Research, Natl. Research Council, Ottawa.* (**1,** 1943)

Evans, Charles A., M.D. Univ. of Washington, Dept. of Microbiology, Seattle 5. *Prof.* (**6,** 1952)

Evans, Earl Alison, Jr., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Prof. and Chairman of Dept.* (**2,** 1939)

Evans, Everett Idris, M.D., Ph.D. Med. College of Virginia, Richmond. *Prof. of Surgery; Dir., Lab. of Surgical Research.* (**1,** 1935)

Evans, T. Gerald, M.D., Ph.D. Univ. of Minnesota Hospitals, Minneapolis. *Dir. of Clin. Labs.; Prof. of Medicine, Univ. of Minnesota.* (**1,** 1942)

Evans, Herbert M., M.D. Univ. of California, Berkeley. *Prof. of Anatomy and Dir. of Inst. of Exper. Biology.* (**1R,** 1919)

Evans, John David, Ph.D. Temple Univ. School of Medicine, Philadelphia 40, Pa. *Asst. Prof. of Physiology.* (**1,** 1952)

Evans, Robert John, Ph.D. Michigan State College, Dept. of Agricultural Chemistry, East Lansing. *Research Prof.* (**5,** 1951)

Evans, Titus C., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof; Head of Radiation Research Lab.* (**1,** 1949)

Eveleth, D. F., Ph.D., D.V.M. North Dakota Agricultural College, Fargo. *Prof. of Veterinary Science, North Dakota Agricultural Exper. Station.* (**2,** 1939)

Everett, Guy M., Ph.D. Abbott Labs., Dept. of Pharmacology, N. Chicago 26, Ill. *Sr. Pharmacologist.* (**3,** 1950)

Everett, John W., Ph.D. Duke Hospital, Box 3209, Durham, N. C. *Prof. of Anatomy, Duke Univ. School of Medicine.* (**1,** 1951)

Everett, Mark R., Ph.D. Univ. of Oklahoma School of Medicine, 800 N. E. 13th St., Oklahoma City 4. *Dean, School of Medicine; Supt. of Univ. Hospitals.* (**2,** 1929)

Eversole, Wilburn J., M.Sc., Ph.D. Univ. of New Mexico, Dept. of Biology, Albuquerque. *Professor.* (**1,** 1950)

Everson, Gladys, Ph.D. Univ. of California, Dept. of Home Economics, Davis. *Prof. and Chairman.* (**5,** 1948)

Ewing, P. L., Ph.D. Univ. of Arkansas School of Medicine, Dept. of Pharmacology and Physiology, Little Rock. *Assoc. Prof.* (**3,** 1938)

Eyster, John A. English, M.D. Univ. of Wisconsin, Madison. *Prof. of Physiology.* (**1,** 1906; **3R,** 1908)

Fahr, George, M.D. Univ. of Minnesota Med. School, 102 Millard Hall, Minneapolis. *Prof. of Clin. Medicine.* (**1R,** 1913; **3,** 1940)

Failey, Crawford F., Ph.D. 416 S. 6th St., Terre Haute, Ind. (**2,** 1933)

Fairbairn, Donald, Ph.D. Macdonald College, Box 199, Quebec, Canada. *Assoc. Prof. of Parasitology, McGill Univ.* (**2,** 1953)

Fairhall, Lawrence T., Ph.D. Yale Univ., Dept. of Public Health, 310 Cedar St., New Haven, Conn. *Lecturer in Public Health and Toxicology.* (**2R,** 1924)

Falk, Carolyn R., B.A. 40 E. 66th St., New York City. *Bacteriologist, Bureau of Labs., Dept. of Health.* (**6,** 1943)

Falk, K. George, Ph.D. Lab. of Industrial Hygiene, Inc., 254 W. 31st St., New York City 1. *Director.* (**2R,** 1913)

Famulener, Lemuel W., Ph.D., M.D. 275 Engle St., Englewood, N. J. (**6,** 1920)

Farah, Alfred E., M.D. State Univ. Med. Center at Syracuse, Syracuse, N. Y. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Farber, Emmanuel. Tulane Univ. School of Medicine, Dept. of Pathology, New Orleans 12, La. (**4,** 1953)

Farber, Sidney, M.D. 300 Longwood Ave., Boston, Mass. *Prof. of Pathology, Harvard Med. School at Children's Hospital.* (**4,** 1934)

Farmer, Chester J., A. M. Wilson's Subdivision, Rt. 2, Cedar Lake, Ind. *Prof. Emeritus of Biochemistry, Northwestern Univ.* (**2R,** 1935)

Farner, Donald S., Ph.D. State College of Washington, Dept. of Zoology, Pullman. *Prof. of Zoophysiology.* (**1,** 1952)

Farnsworth, Edith B., M.D. 700 North Michigan, Chicago 11, Ill. *Assoc. in Medicine, Northwestern Univ.* (**3,** 1952)

Farr, Lee E., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Chairman, Med. Dept.; Dir., Dept. of Med. Sciences; Physician-in-Chief, Brookhaven Natl. Lab. Hospital.* (**4,** 1941)

Farrar, George E., Jr., M.D. Wyeth Labs., 1401 Walnut St., Philadelphia 3, Pa. *Med. Dir.* (**3,** 1947)

Farrell, James, Ph.D., M.D. 636 Church St., Evanston, Ill. (**1,** 1938)

Fassett, David W., M.D. Eastman Kodak Co., Lab. of Industrial Medicine, Kodak Park Works, Rochester, N. Y. *Dir. of Lab.* (**3,** 1942)

Faulconer, Albert, Jr., M.D. Mayo Clinic, Rochester, Minn. *Head, Section of Anesthesiology.* (**3,** 1950)

Fay, Marion, Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Dean; Prof. of Physiological Chemistry.* (**2,** 1937)

Fazekas, Joseph F., M.D. District General Hospital, Washington 3, D. C. *Chief of Staff.* (**3,** 1953)

Featherstone, Robert M., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Feeney, Robert Earl, Ph.D. Univ. of Nebraska, College of Agriculture, Dept. of Biochemistry and Nutrition. *Professor.* (**2,** 1952)

Feigen, George A., Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Instructor.* (**1,** 1948)

Feinstein, Robert N., Ph.D. Univ. of Chicago, USAF Radiation Lab., 930 E. 58th St., Chicago 37, Ill. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Feldman, Harry A., M.D. 704 Crawford Ave., Syracuse 10, N. Y. *Assoc. Prof. of Medicine, State Univ. Med. Center.* (**6,** 1943)

Feldman, William H., D.V.M., D.Sc. Mayo Foundation, Rochester, Minn. *Prof. in the Div. of Exper. Surgery and Pathology.* (**4,** 1934)

Fell, Norbert, Ph.D. Camp Detrick, Frederick, Md. *Chief, Pilot Plants, Engineering Div.* (**6,** 1944)

Feller, A. E., M.D. Univ. of Virginia School of Medicine, Dept. of Microbiology, Charlottesville. *Prof. and Chairman.* (**6,** 1943)

Feller, David D., Ph.D. Veterans Administration Hospital, 4435 Beacon Ave., Seattle 8, Wash. *Instructor in Medicine, Univ. of Washington*

School of Medicine, Asst. Dir., Scientific Radioisotope Unit. (**1,** 1951)

Fellows, Edwin J., Ph.D. Smith, Kline and French Labs., Philadelphia, Pa. *Dir. of Biol. Sciences; Assoc. Prof. of Pharmacology, Temple Univ. Med. School* (**3,** 1939)

Felsenfeld, Oscar, M.D., D.T.M.& H. Hektoen Research Inst., 629 South Wood St., Chicago 12, Ill. *Dir. of Bacteriology.* (**6,** 1949)

Fenn, Wallace Osgood, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology.* (**1,** 1924)

Fenning, Con, M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Physiology.* (**1,** 1942)

Fenton, P. F., Ph.D. Brown Univ., Providence, R. I. *Assoc. Prof. of Biology.* (**1,** 1947; **5,** 1949)

Ferguson, Frank C., Jr., M.D. Albany Med. College, Dept. of Pharmacology, New Scotland Ave., Albany, N. Y. *Prof. and. Dir.* (**3,** 1951)

Ferguson, Frederick P., Ph.D. Univ. of Maryland School of Medicine, Dept. of Physiology, Baltimore 1. *Assoc. Prof.* (**1,** 1949)

Ferguson, James Kenneth Wallace, M.D. 76 Kilbarry Rd., Toronto, Ont., Canada. *Prof. of Pharmacology, Univ. of Toronto.* (**1,** 1933; **3,** 1941)

Ferguson, John, Ph.D. Creighton Univ. School of Medicine, 302 No. 14th St., Omaha 2, Neb. *Asst. Prof. of Physiology and Pharmacology* (**1,** 1949)

Ferguson, John Howard, M.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Prof. of Physiology and Dept. Head.* (**1,** 1933)

Ferguson, L. Kraeer, M.D. 133 S. 36th St., Philadelphia 4, Pa. *Prof. of Surgery, Grad. School, Univ. of Pennsylvania and Woman's Med. College of Pennsylvania; Surgeon, Doctor's Hospital and Philadelphia General Hosp.* (**4,** 1935)

Ferguson, Lloyd C., D.V.M., Ph.D. Ohio State Univ., Dept. of Bacteriology, Columbus 10. *Assoc. Prof.* (**6,** 1953)

Ferguson, Ralph L., M.D. 606 Porter St., Joplin, Mo. *Pathologist, St. John's Hospital.* (**4,** 1949)

Ferris, Benjamin G., Jr., M.D. Town House Road, Weston 93, Mass. *Assoc. in Physiology, Harvard School of Public Health.* (**1,** 1951)

Ferry, John Douglass, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Chemistry.* (**2,** 1941)

Ferry, Ronald M., M.D. 966 Memorial Drive, Cambridge, Mass. *Assoc. Prof. of Biochemistry and Tutor in Biochem. Sciences, Harvard Univ.; Master of Winthrop House.* (**2,** 1924)

Fetcher, Edwin S., Ph.D. Steamboat Springs, Colo. (**1,** 1944)

Fetter, Dorothy, Ph.D. Brooklyn College, Dept. of Hygiene, Brooklyn, N. Y. *Asst. Prof.* (**1,** 1944)

Fevold, Harry L., Ph.D. Baxter Labs., Inc., 6301 Lincoln Ave., Morton Grove, Ill. *Dir. of Biochemical Research.* (**2,** 1942)

Field, John II, Ph.D. Univ. of California, School of Medicine, Dept. of Physiology, Los Angeles 24. *Prof. and Chairman of Dept.* (**1,** 1930)

Field, John B., M.D., Ph.D. Univ. of Southern California School of Medicine, Los Angeles 33. *Asst. Prof. of Clin. Medicine.* (**2,** 1952)

Finch, Clement A., M.D. Univ. of Washington Med. School, Dept. of Medicine, Seattle. *Assoc. Prof.* (**1,** 1951)

Fincke, Margaret L., Ph.D. Oregon State College, Corvallis. *Prof. and Head of Dept. of Foods and Nutrition, Dept. of Home Economics.* (**5,** 1940)

Findley, Thomas, Jr., M.D. Ochsner Clinic, 3503 Prytania, New Orleans, La. *Head of Dept. of Internal Medicine; Prof. of Clin. Medicine, Tulane Univ. School of Medicine.* (**1,** 1938)

Finerty, John C., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Anatomy.* (**1,** 1947)

Fingl, Edward G., Ph.D. Univ. of Utah, Dept. of Pharmacology, Salt Lake City 1. *Asst. Research Prof.* (**3,** 1953)

Fink, Kathryn F., Ph.D. Long Beach Veterans Administration Hospital, Long Beach, Calif. *Research Biochemist; Assoc. Clinical Prof. of Biophysics, UCLA.* (**2,** 1953)

Fink, Robert M., Ph.D. Veterans Admin. Hosp., Long Beach, Calif. *Research Biochemist.* (**2,** 1953)

Finland, Maxwell, M.D. Boston City Hospital, Boston, Mass. *Assoc. Prof. of Medicine, Harvard Med. School.* (**6,** 1941)

Finnegan, J. K., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Firor, Warfield Monroe, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Surgery, Johns Hopkins Univ.* (**1,** 1932)

Fischel, Edward E., Sc.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Medicine.* (**6,** 1948)

Fischer, Ernst, M.D. Med. College of Virginia, Richmond. *Prof. of Physiology.* (**1,** 1936)

Fischer, Hermann O. L., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Chairman of Dept.* (**2R,** 1940)

Fischer, Martin H., M.D. Univ. of Cincinnati, 107 Physics Bldg., Cincinnati 21, Ohio. *Prof. Emeritus of Physiology.* (**1,** 1901; **2R,** 1919)

Fishberg, Ella H., M.D. Beth Israel Hospital, Stuyvesant Park E., New York City. *Dir., Biochem. Lab.* (**2,** 1931)

Fisher, Albert Madden, Ph.D. Univ. of Toronto, Connaught Med. Research Labs., Insulin Committee, 150 College St., Toronto 5, Canada. *Asst. Dir., Connaught Labs.; Exec. Secy., Insulin Com.* (**2,** 1944)

Fisher, Kenneth C., Ph.D. Univ. of Toronto, Dept. of Zoology, Toronto, Canada. *Assoc. Prof. of Animal Physiology.* (**1,** 1940)

Fishman, Alfred P., M.D. 541 East 20th St., New York City 10. *Established Investigator, Am. Heart Assn.* (**1,** 1952)

Fishman, William H., Ph.D. Tufts College Med. School, 30 Bennet St., Boston 15, Mass. *Research Prof., Biochemistry and Nutrition.* (**2,** 1947)

Fiske, Cyrus H., M.D. Harvard Med. School, Boston, Mass. *Prof. of Biological Chemistry.* (**2,** 1914)

Fitzgerald, Mabel P. 12 Crick Rd., Oxford, England. (**1R,** 1913)

Fitzhugh, O. Garth, Ph.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Chief, Chronic Toxicity Branch.* (**3,** 1940)

Fleischmann, Walter, M.D., Ph.D. V. A. Hospital, Oteen, N. C. *Clin. Pathologist.* (**1,** 1940)

Fleisher, Moyer S., M.D. Jewish Hospital, 216 S. Kingsbury Blvd., St. Louis, Mo. *Research Bacteriologist.* (**4,** 1924; **6,** 1932)

Flexner, Louis B., M.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4. *Prof. and Chairman of Dept.* (**1,** 1933; **2,** 1948)

Flick, John A. Univ. of Pennsylvania School of Medicine, Dept. of Bacteriology, Philadelphia 4. *Assoc. Prof., Med. Microbiology.* (**6,** 1949)

Flock, Eunice V., Ph.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. in Exper. Medicine, Mayo Foundation, Univ. of Minnesota.* (**2,** 1940)

Florman, Alfred L., M.D. Mt. Sinai Hospital, New York City. *Investigator in Virology.* (**6,** 1942)

Flosdorf, Earl W., Ph.D. Forest Grove, Pa. *Dir. of Research, F. J. Stokes Machine Co., Philadelphia.* (**6,** 1941)

Floyd, Cleveland, M.D., Sc.D. 246 Marlborough St., Boston, Mass. *Chief Examiner, Boston Health Dept.* (**6,** 1916)

Flynn, Joseph E., M.D. Columbia Univ., Dept. of Pathology, 630 West 168th St., New York City 32. *Assoc. Prof.* (**4,** 1953)

Foa, Piero Pio, Ph.D., M.D. 710 S. Wolcott St., Chicago, Ill. *Prof. of Physiology and Pharmacology, Chicago Med. School.* (**1,** 1944)

Folch, Jordi, M.D. McLean Hospital, Waverly, Mass. *Assoc. Prof. of Biological Chemistry, Harvard Med. School; Dir. of Scientific Research, McLean Hospital.* (**2,** 1941)

Foldes, Francis F., M.D. Mercy Hospital, 1400–1430 Locust St., Pittsburgh 19, Pa. *Dir. of Anesthesiology.* (**3,** 1952)

Folk, G. Edgar, Jr., Ph.D. State Univ. of Iowa Med. School, Iowa City. *Assoc. Prof. of Physiology.* (**1,** 1953)

Folkers, Karl, Ph.D. Merck & Co., Inc., Rahway, N. J. *Dir., Organic and Biological Chemical Research Div.* (**2,** 1947)

Follensby, Edna M., Ph.D. 80 E. Concord St., Boston, Mass. *Research Assoc., Boston Univ. School of Medicine.* (**6,** 1933)

Follis, Richard H., Jr., M.D. Salt Lake County Gen. Hosp., 2033 State St., Salt Lake City 15, Utah. *Prof. and Head, Dept. of Pathology, Univ. of Utah, College of Medicine.* (**4,** 1942)

Foltz, Elwood L., M.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Instr. in Medicine; Assoc. in Clin. Pharmacology.* (**1,** 1952)

Fong, Jacob, Ph.D. 2640 Derby St., Berkeley 5, Calif. *Asst. Prof. of Bacteriology, Univ. of California.* (**6,** 1951)

Fontaine, Thomas D., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Chestnut Hill Station, Philadelphia 18, Pa. *Head, Biologically Active Compounds Div.* (**2,** 1946)

Foot, Nathan Chandler, M.D. Cornell Univ. Med. College, New York City. *Consultant.* (**4,** 1924)

Forbes, Alexander, A.M., M.D. Harvard University, Biological Labs., Divinity Ave., Cambridge, Mass. (**1,** 1910)

Forbes, Ernest B., Ph.D. State College, Pa. *Prof. Emeritus of Animal Nutrition.* (**1R,** 1917; **5R,** 1935)

Forbes, Henry S., M.D. 71 Forest St., Milton 86, Mass. (**1R,** 1931)

Forbes, John C., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Biochemistry.* (**2,** 1937)

Forbes, Richard M., Ph.D. Univ. of Illinois, Dept. of Animal Nutrition, Urbana, Ill. *Assoc. Prof.* (**5,** 1953)

Forbes, William H., Ph.D. Harvard School of Public Health, 55 Shattuck St., Boston, Mass. (**1,** 1943)

Forney, Robert B., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Assoc. Prof. of Toxicology.* (**3,** 1950)

Forssander, C. A., M.D. Dept. of Tuberculosis Control, Vancouver, B. C., Canada. (**1,** 1950)

Forster, Francis M., M.D. 3800 Reservoir Rd., Washington, D. C. *Prof. and Dir. of Dept. of Neurology, Georgetown Univ. School of Medicine,* (**1,** 1948)

Forster, Robert Elder, II, M.D. 721 Millbrook Lane, Haverford, Pa. *Assoc. Prof. of Physiology, Grad. School of Medicine, Univ. of Pennsylvania.* (**1,** 1951)

Forster, Roy P., Ph.D. Dartmouth College, Dept. of Zoology, Hanover, N. H. *Professor.* (**1,** 1950)

Fosdick, Leonard S., Ph.D. 311 E. Chicago Ave., Chicago, Ill. *Prof. of Chemistry, Northwestern Univ.* (**2,** 1944)

Foster, G. L., Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St.,

New York City. *Prof. of Biological Chemistry.* (**2,** 1923)

Foster, Harry E., M.D. Fairmont Hotel, San Francisco, Calif. *Retired Med. Dir., Cutter Labs.* (**6,** 1913)

Foster, Jackson W., Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin 12. *Prof. of Bacteriology.* (**2,** 1946)

Foster, Joseph F., Ph.D. Iowa State College, Dept. of Chemistry, Ames. *Assoc. Prof.* (**2,** 1952)

Foster, Robert H. K., Ph.D., M.D. 301 E. Jefferson St., Franklin, Ind. *Practicing Physician.* (**1,** 1940; **3,** 1944)

Foster, William C., M.S. Hahnemann Med. College, 235 North 15th St., Philadelphia 2, Pa. *Research Assoc.; Teaching Asst. in Physiology.* (**1,** 1952)

Fothergill, LeRoy D., M.D. Camp Detrick, Frederick, Md. *Asst. Technical Dir.* (**6,** 1936)

Fowler, Ward S., M.D. Mayo Foundation, Dept. of Physiology, Rochester, Minn. *Assoc. Prof.* (**1,** 1950)

Fox, Charles L., Jr., M.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City 29. *Research Assoc. in Surgery.* (**1,** 1951; **6,** 1951)

Fox, John P., M.D. Tulane Univ. School of Medicine, 1430 Tulane Ave., New Orleans, La. *Prof. of Epidemiology.* (**6,** 1953)

Fox, Sidney W., Ph.D. Iowa State College, Chemistry Dept., Ames. *Prof. of Chemistry; Prof. in charge, Chemistry Section, Iowa Agricultural Exper. Station.* (**2,** 1946)

Fraenkel, Gottfried S., Ph.D. Univ. of Illinois, Urbana. *Prof. of Entomology.* (**5,** 1949)

Fraenkel-Conrat, Heinz, M.D., Ph.D. Univ. of California, Virus Lab., Berkeley. *Assoc. Biochemist; Lecturer, Biochemistry Dept.* (**2,** 1942)

Francis, Thomas, Jr., M.D. Univ. of Michigan School of Public Health, Ann Arbor. *Henry Sewall Univ. Prof. of Epidemiology; Chairman of Dept.* (**4,** 1940; **6,** 1930)

Frank, Karl, Ph.D. Natl. Insts. of Health, Inst. of Mental Health, Bethesda, Md. *Neurophysiologist, Spinal Cord Sec., Lab. of Neurophysiology.* (**1,** 1953)

Franke, Florent E., M.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1934)

Frankel, Edward M., Ph.D. 190 Riverside Drive, New York City 24. (**2,** 1916)

Frantz, Ivan D., Jr., M.D. Massachusetts General Hospital, Cardiovascular Research Lab., Fruit St., Boston 14. *Assoc. in Medicine, Harvard Univ.; Asst. Physician, Mass. Gen. Hospital; Consultant in Biophysics, Mass. Inst. of Technology.* (**2,** 1953)

Fraps, R. M., Ph.D. U. S. Dept. of Agriculture, Bureau of Animal Husbandry, Beltsville, Md. *Sr. Physiologist.* (**1,** 1947)

Fraser, Donald T., M.B., D.P.H. Univ. of Toronto, Dept. of Hygiene and Preventive Medicine, Toronto 5, Canada. *Professor; Assoc. Dir., School of Hygiene and Connaught Med. Research Labs.* (**6,** 1935)

Fraser, Havelock F., M.D. U. S. Public Health Service Hospital, Lexington, Ky. *Asst. Dir., Addiction Research Center, Natl. Inst. of Mental Health, USPHS.* (**3,** 1952)

Frawley, John P., Ph.D. 2508 Columbia Pike, Arlington, Va. *Biochemist, Army Med. Service Grad. School.* (**3,** 1953)

Fredette, Victorian. Univ. of Montreal, Montreal, Que., Canada. *Asst. Prof. of Bacteriology; Assoc. Dir., Inst. of Microbiology.* (**6,** 1948)

Free, Alfred H., Ph.D. Miles-Ames Research Lab., Elkhart, Ind. *Head of Biochemistry Section.* (**2,** 1946; **5,** 1944)

Freedberg, A. Stone, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assoc. Dir., Med. Research Dept.; Asst. Prof. of Medicine, Harvard Med. School.* (**1,** 1952)

Freeman, Harry, M.D. Worcester State Hospital, Worcester, Mass. *Dir. of Research.* (**1,** 1939)

Freeman, Leslie Willard, Ph.D., M.D. Univ. of Indiana, Dept. of Surgery, Indianapolis. *Prof. of Surgery; Dir. of Surgical Research.* (**1,** 1944)

Freeman, Norman E., M.D. Univ. of California Med. School, Dept. of Surgery, San Francisco 22. (**1,** 1936)

Freeman, Smith, M.D., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Biochemistry.* (**1,** 1937)

French, C. Stacy, Ph.D. Carnegie Institution of Washington, Stanford Univ., Calif. *Dir., Dept. of Plant Biology.* (**2,** 1946)

French, Cyrus E., Ph.D. Rheumatic Fever Research Inst., 3026 S. California Ave., Chicago 8, Ill. (**5,** 1948)

French, Dexter, Ph.D. Iowa State College, Dept. of Chemistry, Ames. *Assoc. Prof.* (**2,** 1953)

Frenkel, Jacob Karl. Univ. of Kansas School of Medicine, Kansas City 12. *Asst. Prof. of Pathology.* (**4,** 1953)

Freund, Jules, M.D. Public Health Research Inst. of the City of New York, New York City. *Chief of the Div. of Applied Immunology.* (**6,** 1924)

Frey, Charles N., Ph.D. Standard Brands Inc., 595 Madison Ave. at 57th St., New York City 22. *Dir., Scientific Relations.* (**5,** 1948)

Freyburger, Walter A., Jr., Ph.D. Upjohn Co., Kalamazoo, Mich. *Pharmacologist.* (**3,** 1951)

Fried, Josef, Ph.D. Squibb Inst. for Med. Re-

search, New Brunswick, N. J. *Assoc. Member, Div. of Organic Chemistry.* (**2,** 1948)

Friedberg, Felix, Ph.D. Howard Univ. Med. School, Dept. of Biochemistry, Washington 1, D. C. *Instr.* (**2,** 1951)

Friedemann, Theodore E., Ph.D. HQ Army Med. Nutrition Lab., Fitzsimons Army Hosp., Denver 8, Colo. *Scientific Dir.* (**2,** 1925; **5,** 1952)

Frieden, Edward H., Ph.D. New England Med. Center, 25 Bennett St. Boston 11, Mass. *Asst. Prof. of Biochemistry, Tufts College Med. School; Dir., Arthritis Research Lab.* (**2,** 1950)

Friedenwald, Jonas S., M.D. 1212 Eutaw Place, Baltimore 17, Md. *Assoc. Prof. of Ophthalmology, Johns Hopkins Hospital.* (**1,** 1947)

Friedewald, William F., M.D. Emory Univ. School of Medicine, Atlanta, Ga. *Prof. of Bacteriology; Assoc. Prof. of Medicine.* (**4,** 1941)

Friedgood, Harry B., M.D. Univ. of California. School of Medicine, Los Angeles. *Assoc. Clin. Prof. of Medicine; Pres. and Chairman, California Inst. of Cancer Research.* (**1,** 1936)

Friedkin, Morris Enton, Ph.D. Washington Univ. Med. School, Dept. of Pharmacology, St. Louis 10, Mo. *Asst. Prof. of Pharmacology.* (**2,** 1951)

Friedman, Maurice H., Ph.D., M.D. 2040 Belmont Rd., Washington 9, D. C. (**1,** 1929)

Friedman, Meyer, M.D. Harold Brunn Inst. for Cardiovascular Research, Mt. Zion Hospital, 2200 Post St., San Francisco, Calif. *Director.* (**1,** 1947)

Friedman, M. H. F., Ph.D. Jefferson Med. College of Philadelphia, 1025 Walnut St., Philadelphia, Pa. *Assoc. Prof. of Physiology.* (**1,** 1941)

Friedman, Nathan B., M.D. Cedars of Lebanon Hospital, Div. of Labs., 4833 Fountain Ave., Los Angeles, Calif. *Director.* (**4,** 1942)

Friedman, Sydney M., M.D., Ph.D. Univ. of British Columbia, Vancouver, B.C., Canada. *Prof. and Head, Dept. of Anatomy.* (**1,** 1947)

Friedman, Townsend B. 104 S. Michigan Ave. Chicago 3, Ill. (**6,** 1948)

Fritz, James C., B.S. Dawe's Manufacturing Co., 4800 S. Richmond St., Chicago 32, Ill. *Dir. of Nutrition Research.* (**5,** 1951)

Frost, Douglas Van Anden, Ph.D. Abbott Labs., N. Chicago, Ill. *Head of Nutritional Research.* (**2,** 1946; **5,** 1947)

Fruton, J. S., Ph.D. Yale School of Medicine, 333 Cedar St., New Haven, Conn. *Prof. of Biochemistry.* (**2,** 1938)

Fugo, Nicholas W., Ph.D., M.D. Univ. of Chicago, Dept. of Obstetrics and Gynecology, Chicago, Ill. *Asst. Prof.* (**3,** 1944)

Fuhrman, Frederick A., Ph.D. Stanford Univ., Stanford Univ., Calif. *Assoc. Prof. of Physiology.* (**1,** 1946)

Fukushima, David K., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc., Stereo Biochemistry* (**2,** 1952)

Fuld, Maria, Ph.D. Univ. of Pittsburgh, School of Public Health, Pittsburgh, Pa. *Asst. Prof. of Biochemistry.* (**2,** 1953)

Fulton, George P., Ph.D. Boston Univ., Dept. of Biology, 675 Commonwealth Ave., Boston, Mass. *Professor.* (**1,** 1950)

Fulton, John Farquhar, Ph.D., M.D. Yale Univ. School of Medicine, New Haven, Conn. *Sterling Prof. of Physiology.* (**1,** 1925)

Funderburk, William H., Ph.D. Traverse City State Hospital, Box C, Traverse City, Mich. *Diagnostician.* (**3,** 1953)

Funk, Casimir, D.Sc., Ph.D. 186 Riverside Drive, New York City 24. *Consultant, Funk Fndn. for Med. Research.* (**2R,** 1921)

Fuortes, M. G. F., M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Neuropsychiatry Div., Washington 12, D. C. *Neurophysiologist.* (**1,** 1952)

Furchgott, Robert F., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Pharmacology.* (**2,** 1948; **3,** 1952)

Furth, Jacob, M.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Chief of Pathology Section, Div. of Biology.* (**4,** 1932)

Gaddum, John H., ScD., F.R.S. Univ. of Edinburgh, Edinburgh, Scotland. *Prof. of Pharmacology.* (**3,** 1950)

Gaebler, Oliver H., Ph.D., M.D. Henry Ford Hospital, Detroit, Mich. *Head, Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research.* (**2,** 1927)

Gaffron, Hans, Ph.D. Univ. of Chicago, Inst. of Radiobiology and Biophysics, 5650 Ellis Ave., Chicago 37, Ill. *Prof. of Biochemistry, Dept. of Biochemistry and Inst. of Radiobiology and Biophysics.* (**2,** 1941)

Gagge, Adolph, P. Ph.D. HQ, USAF, Directorate of Research and Development, Human Factors Div., Washington 25, D. C. *Chief of Div.; Col. USAF.* (**1,** 1939)

Galambos, Robert, Ph.D., M.D. Army Med. Service Grad. School, Dept. of Neuropsychiatry, Washington 12, D. C. *Chief.* (**1,** 1942)

Galdston, Morton, M.D. Goldwater Memorial Hospital, New York Univ. Research Service, Welfare Island, New York City 17. *Asst. Prof. of Clin. Medicine; Research Assoc.* (**1,** 1950)

Gall, Edward A., M.D. Cincinnati General Hospital, Cincinnati, Ohio. *Mary M. Emery Prof. of Pathology, Univ. of Cincinnati College of Medicine.* (**4,** 1941)

Gallagher, Thomas F., Ph.D. Sloan-Kettering Inst., 444 E. 68th St., New York City 21. *Chief, Divs. Steroid Metabolism and Steroid Biochemistry.* (**2,** 1932)

Gallup, Willis D., Ph.D. Oklahoma Agricultural

and Mechanical College, Stillwater. *Chemist and Prof. of Agricultural Chemistry.* (**2,** 1932)

Gamble, James L., M.D., S.M. 33 Edgehill Rd., Brookline, Mass. *Prof. Emeritus of Pediatrics, Harvard Med. School.* (**2R,** 1922; **5,** 1933)

Gantt, W. Horsley, M.D. Johns Hopkins Hospital, Phipps Psychiatric Clinic, Baltimore, Md. *Assoc. Prof. of Psychiatry.* (**1,** 1935)

Garb, Solomon, M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City 21. *Asst. Prof. of Clin. Pharmacology.* (**3,** 1951)

Garbat, Abraham L., M.D. 103 E. 78th St., New York City. *Dir., Med. Service, Lenox Hill Hospital; Clin. Prof. of Medicine, New York Univ. Med. School.* (**6,** 1913)

Gardner, Ernest, M.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Prof. of Anatomy.* (**1,** 1949)

Garner, Raymond L., Ph.D. Univ. of Michigan Med. School, 220 W. Med. Bldg., Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1947)

Gasser, Herbert S., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Dir. of Labs.* (**1,** 1915; **3,** 1924)

Gassner, Frank X., D.V.M. Colorado A and M College, Fort Collins. *Prof. of Endocrine Research, Colorado State Exper. Station.* (**1,** 1947)

Gates, Olive, M.D. Cancer Comm. of Harvard Univ., Lab. of Pathology, 194 Pilgrim Rd., Boston, Mass. *Assoc. Pathologist.* (**4,** 1940)

Gaudino, Mario, M.D., Ph.D. 27 W. 9th St., New York City 11. *Research Assoc., New York Univ.-Bellevue Med. Center.* (**1,** 1951)

Gaunt, Robert, Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir., Endocrine Research.* (**1,** 1939)

Gay, Leslie N., M.D. 1114 St. Paul St., Baltimore, Md. (**6,** 1927)

Geddes, William F., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 1. *Prof. and Head of Dept.* (**2,** 1953)

Geiger, Ernest, M.D., Ph.D. 3842 Monteith Dr., Los Angeles 43, Calif. *Prof. of Pharmacology and Toxicology, Univ. of Southern California Med. School, Los Angeles; Advisor in Nutrition, Van Camp Seafood Co., Terminal Island.* (**5,** 1950)

Geiling, E. M. K., M.D., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Chairman of Dept. of Pharmacology.* (**1,** 1933; **2,** 1927; **3,** 1925)

Gelfan, Samuel, Ph.D. 1249 Fifth Ave., New York City 29. *Research Assoc. in Neurology and Neurosurgery, New York Med. College.* (**1,** 1930)

Gellhorn, Alfred, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Dir., Inst. of Cancer Research.* (**3,** 1946)

Gellhorn, Ernst, M.D., Ph.D. Univ. of Minnesota, Room 116, Med. Sciences, Minneapolis. *Prof. of Neurophysiology.* (**1,** 1930)

Gemmill, Chalmers L., M.D. Univ. of Virginia Med. School, Charlottesville. *Prof. of Pharmacology.* (**1,** 1928; **2,** 1935; **3,** 1946)

Gerard, R. W., Ph.D., M.D. Univ. of Illinois Med. School, 912 S. Wood St., Chicago 12, Ill. *Prof. of Neurophysiology; Dir. of Research, Div. of Psychiatry.* (**1,** 1927)

Gergely, John, M.D., Ph.D. Massachusetts General Hospital, Cardiovascular Research Lab., Boston. *Established Investigator, Am. Heart Assn.; Research Assoc. in Medicine, Harvard Med. School.* (**2,** 1952)

Gerheim, Earl B., Ph.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis 3. *Asst. Prof.* (**1,** 1950; **6,** 1950)

Gersh, Isadore, Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Anatomy.* (**4,** 1947)

Gersten, Jerome W., M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 20. *Assoc. Prof. of Physical Medicine and Rehabilitation.* (**1,** 1951)

Gerstenberger, Henry John, M.D. Babies and Childrens Hospital, Cleveland 6, Ohio. *Prof. Emeritus of Pediatrics.* (**5R,** 1938)

Gesell, Robert, M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1913)

Gest, Howard, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Microbiology, Cleveland 6, Ohio. *Assoc. Prof.* (**2,** 1952)

Gettler, Alexander O., Ph.D. 400 E. 29th St., New York City 16. *Prof. Emeritus of Chemistry New York Univ.; Toxicologist to Chief Med. Examiner's Office of the City of New York.* (**2R,** 1916)

Gey, George Otto, M.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Prof. of Surgery.* (**1,** 1940)

Geyer, Robert P., Ph.D. Harvard School of Public Health, Dept. of Nutrition, Boston, Mass. *Asst. Prof.* (**5,** 1950)

Giarman, Nicholas J., Ph.D. Yale Univ. Med. School, Dept. of Pharmacology, New Haven, Conn. *Asst. Prof.* (**3,** 1953)

Gibbard, J., M.Sc. Dept. of Natl. Health and Welfare, Ottawa, Ont., Canada. *Chief, Lab. of Hygiene.* (**6,** 1946)

Gibbs, Frederick Andrews, M.D. 720 N. Michigan Ave., Suite 610. Chicago, Ill. (**1,** 1935)

Gibbs, Martin, Ph.D. Brookhaven Natl. Lab., Dept. of Biology, Upton, L. I., N. Y. *Plant Physiologist.* (**2,** 1953)

Gibbs, Owen Stanley, M.D. P. O. Box 5387, Whitehaven, Memphis 16, Tenn. *Dir., Gibbs Med. Research Lab.* (**3,** 1930)

Gibson, Robert Banks, Ph.D. Univ. Hospital, Iowa City, Iowa. *Prof. of Biochemistry, State Univ. of Iowa.* (**2R,** 1906)

Gies, William John, Ph.D. Columbia Univ., 630 W. 168th St., New York City. *Retired Prof. of Biological Chemistry.* (**1R,** 1898; **2R,** 1906; **3R,** 1909)

Gillis, Marvin B., Ph.D. International Minerals and Chemical Corp., Skokie, Ill. *Supervisor, Biological Research.* (**5,** 1952)

Gilman, Alfred, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Pharmacology.* (**1,** 1935; **3,** 1934)

Gilson, Arthur S., Jr., Ph.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1927)

Ginsberg, Harold S., M.D. Western Reserve Univ. School of Medicine, Dept. of Preventive Medicine, Cleveland 6, Ohio. *Assoc. Prof.* (**6,** 1951)

Githens, Thomas S., M.D. The Cambridge, Philadelphia 44, Pa. (**1R,** 1915)

Givens, Maurice H., Ph.D. Box 5116, Biltmore, N. C. (**1,** 1917; **2,** 1915)

Gjessing, Erland Cheney, Ph.D. Cancer Research Inst., Deaconess Hospital, Pilgrim Rd., Boston, Mass. *Sr. Scientist, Biochemistry.* (**2,** 1948)

Glass, George B. Jerzy, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City 22. *Assoc. Clinical Prof. of Medicine.* (**1,** 1953)

Glass, Howard G., Ph.D. 514 Wesley Ave., Oak Park, Ill. (**3,** 1947)

Glazko, Anthony J., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Research Biochemist.* (**1,** 1942)

Glick, David, Ph.D. Univ. of Minnesota, Dept. of Physiological Chemistry, Minneapolis 14. *Prof.* (**2,** 1936)

Glickman, Nathaniel, M.S. 6936 Byron Ave., Miami Beach, Fla. (**1,** 1947)

Gochenour, William S., Jr., V.M.D. Army Med. Center, Army Med. Service Grad. School, Veterinary Div., Washington 12, D. C. *Chief, Dept. of Veterinary Bacteriology.* (**6,** 1950)

Goddard, David R., Ph.D. Univ. of Pennsylvania, Dept. of Botany, Philadelphia 4. *Prof. of Botany.* (**2,** 1953)

Goebel, Walther F., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**2,** 1929; **6,** 1937)

Goettsch, Marianne, Ph.D. Univ. of Puerto Rico Med. School, San Juan. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1933; **5,** 1941)

Goetzl, Franz R., Ph.D., M.D. 2622 Piedmont Ave., Berkeley 4, Calif. (**1,** 1947)

Gold, Harry, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Pharmacology.* (**3,** 1927)

Goldbaum, Leo R., Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Toxicologist.* (**3,** 1952)

Goldberg, Leon I., Ph.D. Med. College of South Carolina, Dept. of Pharmacology, Charleston 16. *Research Assoc.* (**3,** 1953)

Goldblatt, Harry, M.D. Mt. Sinai Hosp., 1800 E. 105th St., Cleveland 6, Ohio. *Dir. of Labs.* (**1,** 1945; **4,** 1927)

Golden, Alfred, M.D. Veterans Admin. Hosp., Buffalo, N. Y. *Chief of Lab. Service; Lecturer in Pathology, Univ. of Buffalo School of Medicine.* (**4,** 1947)

Goldfeder, Anna, D.Sc. 444 E. 52nd St., New York City 22. *Sr. Biologist in Charge of Cancer Research, Dept. of Hospitals, City of New York; Research Assoc., Dept. of Biology, New York Univ.* (**1,** 1950)

Goldforb, A. J., Ph.D. College of the City of New York, New York City. *Prof. of Biology.* (**1,** 1930)

Goldie, Horace, M.D., D.T.M. Meharry Med. College, Lab. of Exper. Oncology, Nashville 8, Tenn. *Director.* (**6,** 1943)

Goldin, Abraham, Ph.D. Marine Hospital, Natl. Cancer Inst., Clinical Research Unit, Baltimore, Md. *Biologist.* (**1,** 1951)

Goldman, David E., Ph.D. Naval Med. Research Inst., Biophysics Div., Bethesda 14, Md. *Lt. Cdr., MSC, USN; Head of Div.* (**1,** 1951)

Goldring, William, M.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Assoc. Prof. of Medicine.* (**1,** 1939)

Goldsmith, E. D., Ph.D. New York Univ., 477 First Ave., New York City 16. *Assoc. Prof. of Anatomy, Grad. School of Arts and Sciences; Assoc. Prof. of Histology and Research Coordinator, College of Dentistry.* (**1,** 1950)

Goldsmith, Grace A., M.D. Tulane Univ. of Louisiana, New Orleans. *Prof. of Medicine.* (**5,** 1943)

Goldstein, Avram, M.D. Harvard Med. School, Boston, Mass. *Asst. in Pharmacology.* (**3,** 1948)

Gollan, Frank, M.D. Veterans Admin. Hospital, Research Lab., Nashville, Tenn. *Asst. Dir. Isotope Unit.* (**1,** 1950)

Golub, Orville Joseph, Ph.D. Bio Science Labs., Inc., 10717 Venice Blvd., Los Angeles 24, Calif. *Vice Pres.* (**6,** 1944)

Gomori, George, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine.* (**4,** 1948)

Goodale, Walter T., M.D. 99 Pine Ridge Rd., Waban, Mass. *Research Fellow, Harvard Med. School; Asst. in Medicine, Peter Bent Brigham Hospital.* (**1,** 1949)

Goodman, Louis Sanford, M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Chairman of Dept. of Pharmacology.* (**1,** 1946; **3,** 1937)

Goodman, Morris, Ph.D. Univ. of Illinois, Dept. of Pathology, 1853 West Polk St., Chicago 12. *Research Assoc.* (**6,** 1953)

Goodner, Kenneth, Ph.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Bacteriology and Immunology.* (**6,** 1932)

Goodpasture, Ernest William, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pathology.* (**4,** 1923)

Goranson, Ewald S., Ph.D. Univ. of British Columbia, Dept. of Biology and Botany, Vancouver, Canada. *Assoc. Prof. of Physiology.* (**1,** 1952)

Gordon, Albert S., Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Assoc. Prof. of Biology.* (**1,** 1942)

Gordon, Archer S., M.D., Ph.D. Univ. of Illinois College of Medicine, Dept. of Clinical Science, Chicago. *Research Assoc.* (**1,** 1953)

Gordon, Francis B., M.D. Camp Detrick, Chemical Corps, Biology Labs., Frederick, Md. *Supervising Bacteriologist.* (**4,** 1947)

Gordon, Harry H., M.D. Sinai Hospital of Baltimore, Monument St. and Rutland Ave., Baltimore 5, Md. *Pediatrician-in-Chief.* (**5,** 1940)

Gordon, Irving, M.D. New York State Dept. of Health, Div. of Labs and Research, New Scotland Ave., Albany 1. *Asst. Dir., Labs. for Virology; Assoc. Prof. of Medicine and Bacteriology, Albany Med. College.* (**6,** 1943)

Gordon, William G., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist, in Charge Protein Structure Section.* (**2,** 1939)

Gorham, John R., Ph.D. Washington State College, Bureau of Animal Industry, Pullman. *Veterinarian.* (**6,** 1952; **4,** 1953)

Gortner, Ross Aiken, Jr., Ph.D. Wesleyan Univ., Shanklin Lab., Middletown, Conn. *Prof. of Biochemistry.* (**5,** 1947)

Gortner, Willis A., Ph.D. Pineapple Research Inst. of Hawaii, Honolulu, T. H. *Head of Dept. of Chemistry.* (**2,** 1947)

Goss, Harold, Ph.D. Univ. of California College of Agriculture, Davis. *Prof. of Animal Husbandry.* (**2,** 1936; **5,** 1933)

Goth, Andres, M.D. Univ. of Texas, Southwestern Med. College, 2211 Oak Lawn Ave., Dallas 4. *Prof. of Pharmacology and Head of Dept.* (**3,** 1947)

Gottschall, Russell Y., Ph.D. Michigan Dept. of Health, Div. of Labs., Lansing. *Bacteriologist.* (**6,** 1939)

Goudsmit, Arnoldus, Jr., M.D., Ph.D. 2218 Market St., Youngstown 7, Ohio. (**1,** 1940)

Gould, R. Gordon, Ph.D. Los Alamos Scientific Lab., Los Alamos, N. M. *Staff Member, Health Div.* (**2,** 1949)

Gourley, Desmond R. H., Ph.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Assoc. Prof.* (**1,** 1951)

Govier, William M., M.D. Upjohn Co., Research Div., Kalamazoo 99, Mich. *Sr. Research Scientist.* (**3,** 1944)

Gowdey, Charles W., Ph.D. Univ. of Western Ontario Med. School, Dept. of Pharmacology, London, Ontario, Canada. *Assoc. Prof.* (**3,** 1950)

Grabfield, G. Philip, M.D. 15 Hutchinson St., Milton 87, Mass. (**3R,** 1923)

Grady, Hugh G., M.D. Armed Forces Inst. of Pathology, Washington, D. C. *Scientific Dir., American Registry of Pathology.* (**4,** 1940)

Graef, Irving, M.D. New York Univ., Post-Grad. Med. School, New York City. *Assoc. Prof. of Clin. Medicine.* (**4,** 1941)

Graham, Claire E., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago, Ill. *Dir. of Research.* (**2,** 1948; **5,** 1951)

Graham, Clarence H., Ph.D. Columbia Univ., New York City 27. *Prof. of Psychology.* (**1,** 1933)

Graham, Helen Tredway, Ph.D. Euclid Ave. and Kingshighway, St. Louis, Mo. *Assoc. Prof. of Pharmacology, Washington Univ. School of Medicine.* (**1,** 1933; **3,** 1931)

Graham, John Borden. Univ. of North Carolina, Chapel Hill. *Assoc. Prof. of Pathology.* (**4,** 1952)

Graham, W. Donald, Ph.D. Dept. of Natl. Health and Welfare, 35 John St., Ottawa, Canada. *Pharmacologist.* (**3,** 1953)

Granick, S., Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Assoc. Member.* (**2,** 1949)

Grant, E. Rhoda, Ph.D. Univ. of Illinois Med. College, Clinical Science Dept., 1853 West Polk St., Chicago 12, Ill. *Researcher.* (**1,** 1949)

Grant, R. Lorimer, Ph.D. Food and Drug Admin., Div. of Pharmacology, Dept. of Health, Education and Welfare, Washington 25, D. C. *Pharmacologist.* (**2,** 1938)

Grant, Ronald, Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Assoc. Prof.* (**1,** 1950)

Grant, Wilson Clark, Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. (**1,** 1949)

Grau, Charles R., Ph.D. Univ. of California, Div. of Poultry Husbandry, Berkeley 4. *Assoc. Prof. of Poultry Husbandry and Assoc. Nutritionist in Exper. Station.* (**5,** 1949)

Graubard, Mark, Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. *Assoc. Prof.* (**1,** 1940)

Grauer, Robert C., M.D. Allegheny General Hospital, Pittsburgh, Pa. *Dir. of William H. Singer Memorial Research Lab.; Asst. Prof. of Medicine, School of Medicine, Univ. of Pittsburgh.* (**4,** 1941)

Gray, Edward LeB., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Animal Ecology Branch.* (**1,** 1951)

Gray, John S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937)

Gray, M. Geneva, Ph.D. Labs. of Arthur D. Little Inc., Cambridge, Mass. *Research Pharmacologist.* (**3,** 1946)

Gray, Stephen W., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Assoc. Prof. of Anatomy.* (**1,** 1948)

Graybiel, Ashton, M.D. U. S. Naval School of Aviation Medicine and Research, Naval Air Station, Pensacola, Fla. *Dir. of Research.* (**1,** 1948)

Greeley, Paul O., Ph.D., M.D. Univ. of Southern California Med. School, Univ. Park, Los Angeles. *Dir., Student Health Service.* (**1,** 1940)

Green, Arda Alden, M.D. Cleveland Clinic, Research Div., Euclid and E. 93rd St., Cleveland 6, Ohio. (**2,** 1932)

Green, Daniel M., M.D. 1060 East Green St., Pasadena 1, Calif. *Assoc. Clin. Prof., Univ. of Southern California, School of Medicine, Los Angeles.* (**1,** 1948; **3,** 1942)

Green, David E., Ph.D. Univ. of Wisconsin, Inst. of Enzyme Research, 1702 University Ave., Madison 5. *Prof. of Enzyme Chemistry.* (**2,** 1941)

Green, Harold David, M.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Prof. and Dir. of Dept. of Physiology and Pharmacology.* (**1,** 1936; **3,** 1945)

Green, Ray E., M.D. Univ. of Kansas Med. Center, Kansas City 12. *Assoc. Prof. of Pharmacology.* (**3,** 1952)

Green, Robert Holt. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. of Medicine.* (**6,** 1949)

Greenberg, David Morris, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. *Professor.* (**2,** 1927)

Greenberg, G. Robert, Ph.D. Western Reserve Univ., School of Medicine, Cleveland 6, Ohio. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Greenberg, Louis D., Ph.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Assoc. Prof. of Pathology, Univ. of California Med. School.* (**2,** 1946)

Greenberg, Louis, Ph.D. Lab. of Hygiene, Dept. of Natl. Health and Welfare, 45 Spencer St., Ottawa, Canada. *Officer-in-Charge, Biologics Control Section.* (**6,** 1953)

Greenberg, Ruven, Ph.D. Univ. of Illinois Med. School, Dept. of Physiology, Chicago. *Asst. Prof.* (**1,** 1950)

Greene, Carl Hartley, Ph.D., M.D. 401 Clinton Ave., Brooklyn 38, N. Y. (**1,** 1921; **2,** 1922; **4,** 1924)

Greene, Harry S. N., M.D., C.M. Yale Univ. School of Medicine, Dept. of Pathology, New Haven, Conn. *Anthony N. Brady Prof. of Pathology.* (**4,** 1937)

Greene, James Alexander, M.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston, Tex. *Prof. of Medicine Faculty.* (**1,** 1939)

Greengard, Harry, Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Asst. Prof. of Physiology.* (**1,** 1939)

Greenstein, Jesse P., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Chief Biochemist.* (**2,** 1935)

Greenwald, Isidor, Ph.D. 8 Stoneyside Dr., Larchmont, N. Y. (**2R,** 1912; **5,** 1933)

Greenwood, Delbert A., Ph.D. Utah State Agricultural College, Box 163, Logan. *Prof. of Biochemistry.* (**3,** 1950)

Greep, Roy O., Ph.D. Harvard School of Dental Medicine, 25 Shattuck St., Boston 15, Mass. *Dean and Prof. of Dental Science.* (**1,** 1940)

Greer, C. M., M.S. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Instr. in Chemistry.* (**3,** 1938)

Gregersen, Magnus I., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1933)

Gregg, Donald Eaton, Ph.D., M.D. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Chief, Dept. of Cardiorespiratory Diseases.* (**1,** 1933)

Gregory, John E., Rowan Memorial Hosp., Salisbury, N. C. *Pathologist.* (**6,** 1948)

Gregory, Raymond L., Ph.D., M.D. Univ. of Texas School of Medicine, 816 Strand, Galveston. *Prof. of Medicine.* (**1,** 1945)

Greig, Margaret E., Ph.D. Upjohn Co., Research Div., Kalamazoo 99, Mich. *Sr. Research Scientist.* (**3,** 1946)

Greiner, Theodore H., M.D. 62 Meehan Dr., Dayton 3, Ohio. *Prof. Scientist, Aero Med. Lab. Wright Patterson AFB.* (**3,** 1951)

Greisheimer, Esther M., Ph.D. M.D. Temple Univ. Med. School, 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1925)

Grenell, Robert G., Ph.D. Univ. of Maryland, School of Medicine, Psychiatric Inst., Baltimore 1. *Asst. Prof. Psychiatric Research.* (**1,** 1945)

Griffin, A. Clark, Ph.D. Stanford Univ., Dept. of Biochemistry, Stanford, Calif. *Assoc. Prof.* (**2,** 1950)

Griffin, Angus, Ph.D. George Washington Univ. School of Medicine, 1335 H St., N. W., Washington, D. C. *Prof. of Bacteriology.* (**6,** 1940)

Griffin, Donald R., Ph.D. Harvard Univ., Dept. of Zoology, Cambridge 38, Mass. *Professor.* (**1,** 1951)

Griffith, Fred R., Jr., Ph.D. Univ. of Buffalo Med. School, 3435 Main St., Buffalo, N. Y. *Prof. and Head, Dept. of Physiology.* (**1,** 1923; **5,** 1933)

Griffith, Wendell H., Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Physiological Chemistry, Los Angeles 24. *Chairman of Dept.* (**2,** 1923; **5,** 1934)

Griffitts, James J., M.D. Dade Reagents, Inc., 106 N. W. 22nd Ave., Maimi, Fla. *Vice President, Research.* (**6,** 1952)

Grimson, Keith S., M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Surgery.* (**1,** 1943; **3,** 1949)

Grindlay, John H., M.D. Mayo Clinic, Rochester, Minn. (**1,** 1945)

Grisolia, Santiago, M.D. Univ. of Wisconsin, Dept. of Physiological Chemistry, Madison 6. *Asst. Prof.; Established Investigator, Am. Heart Assn.* (**2,** 1952)

Groat, Richard A., Ph.D., M.D. Mayo Clinic, 102 Second Ave., S.W., Rochester, Minn. *Assoc. Prof. of Anatomy, Mayo Fndn.; Consultant in Anatomy, Mayo Clinic.* (**1,** 1945)

Grob, David, M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Asst. Prof. of Medicine, Johns Hopkins Univ. School of Medicine.* (**1,** 1951)

Grodins, Fred S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. of Physiology.* (**1,** 1945)

Grollman, Arthur, M.D., Ph.D. Univ. of Texas, 2211 Oak Lawn Ave., Dallas 19, Tex. *Prof. of Exper. Medicine.* (**1,** 1928; **3,** 1933)

Groschke, Albert C., Ph.D. The Borden Co., 350 Madison Avenue, New York City. *Technical Dir., Feed Supplements Dept.* (**5,** 1952)

Gross, Erwin G., Ph.D., M.D. State Univ. of Iowa, Med. Labs., Iowa City. *Prof. and Head of Dept. of Pharmacology.* (**1,** 1927; **2,** 1923; **3,** 1927)

Gross, J., M.D., C.M., Ph.D. State Univ. of New York Med. Center at New York, College of Medicine, 350 Henry St., Brooklyn 2. (**1,** 1950)

Gross, Robert E., M.D. Children's Hosp., 300 Longwood Ave., Boston 15, Mass. *Surgeon-in-Chief; Ladd Prof. of Children's Surgery, Harvard Med. School.* (**4,** 1940)

Grossman, Morton Irvin, Ph.D., M.D. Army Med. Nutrition Lab., 1849 W. Pershing Rd., Chicago 9, Ill. *Chief, Physiology Div.* (**1,** 1946)

Groupé, Vincent, Ph.D. Rutgers Univ., Dept. of Microbiology, New Brunswick. *Assoc. Prof.* (**6,** 1946)

Grubbs, Robert C., M.D. Ohio State Univ., Columbus. *Assoc. Prof. of Physiology.* (**1,** 1950)

Gruber, Charles M., M.D., Ph.D. College of Med. Evangelists, Dept. of Pharmacology, Loma Linda, Calif. *Prof. and Head of Dept.* (**1R,** 1914; **3,** 1919)

Gruber, Charles M., Jr., M.D. Eli Lilly Co., Indianapolis, Ind. (**3,** 1948)

Gruhzit, Oswald M., M.D. 580 Hampton Rd., Grosse Pointe 30, Mich. *Research in Pathology and Pharmacology.* (**4,** 1928)

Grundfest, Harry, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (**1,** 1932)

Gubler, Clark J., Ph.D. Univ. of Utah College of Medicine, Dept. of Medicine, 175 E. 21st St. South, Salt Lake City. *Asst. Clin. Research Prof.* (**5,** 1951)

Gudernatsch, Fredrick, Ph.D., Sc.D. 41 Fifth Ave., New York City 3. (**1,** 1930)

Guerra, Francisco, M.D. Facultad de Medicina, Univ. Nacional de Mexico, Mexico, D. F. *Prof. Titular de Carrera en Farmacologia.* (**3,** 1947)

Guerrant, N. B., Ph.D. Pennsylvania State College, State College. *Prof. of Biological Chemistry.* (**2,** 1934; **5,** 1933)

Guest, George Martin, M.D. Children's Hospital, Cincinnati 29, Ohio. *Prof. of Pediatrics, Univ. of Cincinnati College of Medicine and Grad. School.* (**2,** 1933)

Guest, Maurice Mason, Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. (**1,** 1946)

Guillemin, Victor, Jr., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biophysics.* (**1,** 1952)

Gulick, Addison, Ph.D. Concord Hall, Suite 62, Cambridge 38, Mass. (**1R,** 1915; **5R,** 1933)

Gunn, Francis D., M.D., Ph.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. and Head of Dept. of Pathology.* (**4,** 1938)

Gunsalus, Irwin C., Ph.D. Univ. of Illinois, 362 Noyes Lab., Urbana. *Prof. of Bacteriology.* (**2,** 1946)

Gurd, Frank Ross, Ph.D. 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Physical Chemistry, Harvard Univ.* (**2,** 1952)

Gurin, Samuel, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Physiological Chemistry.* (**2,** 1938)

Gustus, Edwin L., Ph.D. Bjorksten Research Labs., 1525 E. 53rd St., Chicago 15, Ill. *Vice President.* (**2,** 1934)

Guthrie, Charles Claude, M.D., Ph.D. 806 Hill Crest Ave., Columbia, Mo. *Prof. Emeritus of Physiology and Pharmacology, Univ. of Pittsburgh.* (**1R,** 1905; **3R,** 1909)

Gutman, Alexander B., M.D. Mt. Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Dir. and Prof. of Medicine.* (**2,** 1947)

Gutmann, Helmut R., M.D. Veterans Admin. Hospital, Radioisotope Unit, Minneapolis 17, Minn. *Biochemist; Asst. Prof., Dept. of Physiological Chemistry, Univ. of Minnesota Med. School.* (**2,** 1952)

Guttman, Rita M., Ph.D. Brooklyn College, Brooklyn, N. Y. *Asst. Prof. of Physiology.* (**1,** 1946)

Guyton, Arthur C., M.D. Univ. of Mississippi School of Medicine, Dept. of Physiology and Biophysics, University. *Prof. and Chairman of Dept.* (**1,** 1949)

György, Paul, M.D. Univ. of Pennsylvania School

of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. of Nutrition.* (**2,** 1938; **5,** 1939)

Haag, Harvey B., M.D. Med. College of Virginia, Richmond. *Prof. of Pharmacology.* (**3,** 1934)

Haag, J. R., Ph.D. Oregon State College, Agricultural Exper. Station, Corvallis. *Chemist.* (**2,** 1947; **5,** 1941)

Haas, Erwin, Ph.D. Mt. Sinai Hospital, 1800 E. 105th St., Cleveland 6, Ohio. *Sr. Research Chemist.* (**2,** 1946)

Habel, Karl, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Infectious Diseases.* (**6,** 1952)

Haberman, Sol, Ph.D. Wadley Research Inst. and Blood Ctr., 3600 Gaston Ave., Dallas, Texas. *Asst. Dir. and Prof. of Bacteriology and Immunology.* (**6,** 1944)

Hackel, Donald B. City Hospital, Cleveland 9, Ohio. *Sr. Inst. in Pathology.* (**4,** 1953)

Hadidian, Zareh, Ph.D. Tufts College Med. School, Boston, Mass. *Assoc. Prof.* (**1,** 1945)

Hafkenschiel, Joseph H., Jr., M.D. Univ. of Pennsylvania School of Medicine, Univ. Hospital, 3600 Spruce St., Philadelphia 4. *Assoc. in Medicine.* (**1,** 1950; **3,** 1952)

Hafkesbring, H. Roberta, Ph.D. Woman's Med. College of Pennsylvania, East Falls, Philadelphia. *Prof. of Physiology.* (**1,** 1931)

Haggard, Howard W., M.D. 52 Hillhouse Ave., New Haven, Conn. *Dir. of Lab. of Applied Physiology, Yale Univ.* (**1,** 1919; **2,** 1920)

Hahn, Paul F., Ph.D. Meharry Med. College, Nashville, Tenn. *Dir. of Cancer Research Labs.; Prof. of Exper. Oncology.* (**1,** 1946; **4,** 1939)

Haig, Charles, Ph.D. New York Med. College, Fifth Ave. at 106th St., New York City. *Assoc. Prof. of Physiology and Biochemistry.* (**1,** 1942)

Haimovici, Henry, M.D., 105 E. 90th St., New York City 28. *Assoc. Attending Surgeon, Montefiore Hospital.* (**1,** 1950)

Haines, William J., Ph.D. 1205 Cambridge Drive, Kalamazoo, Mich. *Head of Dept., Endocrinology Research Div., The Upjohn Co.* (**2,** 1953)

Haist, Reginald E., M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology.* (**1,** 1943)

Halbert, Seymour P., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Microbiology.* (**6,** 1947)

Haldi, John, Ph.D. Emory Univ. School of Dentistry, Emory University, Ga. *Prof. of Physiology.* (**1,** 1928)

Hale, William M., M.D. Univ. of Tennessee College of Medicine, Cancer Research Lab., 3 N. Dunlap, Memphis. *Prof. of Bacteriology.* (**4,** 1941; **6,** 1935)

Hale, Worth, M.D. Antrim, N. H. *Retired.* (**1R,** 1908; **3R,** 1908)

Haley, Thomas J., Ph.D. 12007 Thermo St., Los Angeles 34, Calif. *Chief, Div. of Pharmacology and Toxicology, A. E. Project, Med. School, Univ. of California.* (**3,** 1949)

Hall, Charles E., Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. *Assoc. Prof.* (**1,** 1949)

Hall, F. G., Ph.D. Duke Univ. School of Medicine, Dept. of Physiology and Pharmacology, Durham, N. C. *Prof. of Physiology.* (**1,** 1937)

Hall, Victor E., M.D. 506 Hanley Pl., Los Angeles 49, Calif. *Prof. of Physiology, Univ. of California School of Medicine.* (**1,** 1934)

Hall, W. Knowlton, Ph.D. Med. College of Georgia, Univ. Place, Augusta. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Hallenbeck, George Aaron, Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Research Assoc.* (**1,** 1946)

Halpert, Béla, M.D. Veterans Admin. Hospital, 2002 Holcombe Blvd., Houston 4, Texas. *Chief, Lab. Service; Clin. Prof. of Pathology, Baylor Univ. College of Medicine.* (**4,** 1936)

Halstead, Ward C., Ph.D., Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Assoc. Prof. of Exper. Psychology, Div. of Psychiatry.* (**1,** 1942)

Ham, Arthur W., M.B. Univ. of Toronto, Toronto 5, Ontario, Canada. *Prof. of Anatomy in charge of Histology.* (**4,** 1939)

Hambourger, Walter E., Ph.D., M.D. G. D. Searle and Co., P.O. Box 5110, Chicago, Ill. *Chief Pharmacologist.* (**3,** 1934)

Hamilton, Bengt L. K., M.D. 8311 Drexel Ave., Chicago 19, Ill. *Med. Dir., USPHS.* (**2,** 1925)

Hamilton, Clara E., Ph.D. Univ. of Georgia, Dept. of Animal Biology, Athens. *Asst. Prof. of Zoology.* (**1,** 1952)

Hamilton, James B., Ph.D. New York State Med. Center, Dept. of Anatomy, 350 Henry St., Brooklyn 1, N. Y. *Prof. of Anatomy.* (**1,** 1938)

Hamilton, Paul B., M.D., Ph.D. Alfred I. duPont Inst., Nemours Foundation, Rockland Rd., Wilmington 99, Del. *Chief of Biochemistry.* (**2,** 1946)

Hamilton, Tom R., M.D. Kansas Univ. Med. Center, Kansas City 3. *Prof. of Microbiology and Pathology.* (**4,** 1950)

Hamilton, Tom S., Ph.D. Univ. of Illinois, 120 Animal Sciences Lab., Urbana. *Prof. and Head, Div. of Animal Nutrition.* (**2,** 1937; **5,** 1938)

Hamilton, W. F., Ph.D. Med. College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1924)

Hammon, William McD., M.D., D.P.H. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. of Epidemiology; Head, Dept. of Epidemiology and Microbiology, Grad. School of Public Health.* (**4,** 1944; **6,** 1496)

Hampel, C. W., Ph.D. New York Univ.-Bellevue

Medical Center, New York City. *Assoc. Prof. of Physiology.* (**1,** 1936)

Hamre, Dorothy, Ph.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Research Assoc.* (**6,** 1948)

Hanahan, Donald J., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2,** 1952)

Hand, David B., Ph.D. New York State Agricultural Exper. Station, Geneva. *Head, Div. of Food Science and Technology and Prof. of Biochemistry.* (**2,** 1947)

Handler, Philip, Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Biochemistry and Nutrition.* (**2,** 1944; **5,** 1946)

Handley, Carroll A., Ph.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Houston 25, Tex. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1942)

Haney, Hance F., Ph.D., M.D. Univ. of Oregon Med. School, Portland. *Asst. Prof. of Medicine.* (**1,** 1939)

Hanger, Franklin, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**6,** 1930)

Hanke, Martin E., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1925)

Hanke, Milton Theo, Ph.D. 7550 S. Green St., Chicago, Ill. *Research Consultant, Biochemistry and Nutrition.* (**2,** 1919)

Hanks, John H., Ph.D. Harvard Univ. Med. School, Boston, Mass. *Dept. of Bacteriology; Bacteriologist of the Leonard Wood Memorial.* (**6,** 1935)

Hansen, Arild E., M.D. Univ. of Texas Med. School, Galveston. *Prof. and Chairman of Dept. of Pediatrics; Dir. of Univ. of Texas Child Health Program.* (**4,** 1941; **5,** 1942)

Hansen, Eder Lindsay, Ph.D. 561 Santa Barbara Rd., Berkeley 7, Calif. *Research Assoc.* (**3,** 1951)

Hansen, Roger G., Ph.D. Univ. of Illinois, Dairy Science Dept., Urbana. *Assoc. Prof.* (**2,** 1952)

Hardenbergh, Esther, Sc.D. Natl. Naval Med. Center, Naval Med. Research Inst., Div. of Physiology, Bethesda 14, Md. *Head, Surgery Branch.* (**1,** 1951)

Hardy, James D., M.D. Univ. of Tennessee Med. College, Memphis. *Asst. Prof. of Surgery.* (**1,** 1951)

Hardy, James Daniel, Ph.D. Naval Air Development Center, Aviation Med. Lab., Johnsville, Pa. *Dir. of Research.* (**1,** 1939)

Hardy, Mary, D.Sc. The Chapin School, 100 East End Ave., New York City. *Teacher of Science.* (**1,** 1933)

Hare, Kendrick, Ph.D. Med. College of Alabama, Dept. of Pharmacology, Birmingham. *Prof. of Pediatrics and Pharmacology.* (**1,** 1938)

Harford, Carl G., M.D. Washington Univ. School of Medicine, Dept. of Internal Medicine, Div. of Infectious Diseases, St. Louis, Mo. *Assoc. Prof. of Medicine and Preventive Medicine.* (**6,** 1948)

Harger, R. N., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Biochemistry and Toxicology; Chairman, Dept. of Biochemistry and Pharmacology.* (**2,** 1938; **3,** 1949)

Harkins, Henry N., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer of Dept. of Surgery.* (**1,** 1942)

Harman, John W., M.D. Univ. of Wisconsin Med. School, Dept. of Pathology, 426 N. Charter St., Madison. *Assoc. Prof.* (**4,** 1951)

Harmon, Paul M., Ph.D. Indiana Univ., Bloomington. *Prof. and Chairman, Dept. of Physiology.* (**1,** 1930)

Harne, O. G. Univ. of Maryland School of Medicine, Baltimore. *Assoc. Prof. of Anatomy; Asst. to the Dean.* (**1,** 1935)

Harned, Ben King, Ph.D. Mead Johnson & Co., Evansville 21, Ind. *Exec. Dir. of Research.* (**2,** 1931; **3,** 1941)

Harris, Albert H., M.D. N. Y. State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Asst. Dir. for Local Labs.* (**6,** 1937)

Harris, Albert Sidney, Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 12. *Prof. and Chairman of Dept.* (**1,** 1939)

Harris, Lorin E., Ph.D. Utah State Agricultural College, Logan. *Chairman, Inst. of Nutrition; Prof. of Animal Husbandry.* (**5,** 1953)

Harris, Milton, Ph.D. Harris Research Labs., 1246 Taylor St., N.W., Washington 11, D. C. *President.* (**2,** 1939)

Harris, Paul N., M.D. Eli Lilly and Company, Indianapolis, Ind. *Head of Pathology Dept., Div. of Pharmacology.* (**3,** 1948)

Harris, Philip L., Ph.D. Distillation Products Ind., 755 Ridge Rd. W., Rochester 3, N. Y. *Head of Biochemistry Research Dept.; Assoc. in Physiology, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1946; **5,** 1945)

Harris, Robert S., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Nutritional Biochemistry.* (**5,** 1941)

Harris, S. C., Ph.D. Northwestern Univ. Dental School, 311 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof.; Chairman of Physiology and Pharmacology.* (**1,** 1947; **3,** 1952)

Harris, T. N., M.D. Children's Hospital of Philadelphia, Philadelphia, Pa. *Prof. of Immunology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1946)

Harris, William H., M.D. Tulane Univ. School of

Medicine, New Orleans, La. *Assoc. Prof. of Pathology.* (**4,** 1925)

Harrison, Frank, Ph.D. Southwestern Univ. Med. School, Dallas 4, Texas. *Prof. of Anatomy.* (**1,** 1941)

Harrison, James A., Ph.D. Temple Univ., Philadelphia 22, Pa. *Prof. of Biology.* (**6,** 1946)

Harrison, Ross Granville, M.D., Ph.D. Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. Emeritus of Biology, Yale Univ.* (**1,** 1906)

Harrison, R. Wendell, M.D., Ph.D. 5541 Dorchester Ave., Chicago 37, Ill. *Prof. of Bacteriology; Dean of Faculties and Vice Pres., Univ. of Chicago.* (**6,** 1934)

Harrow, Benjamin, Ph.D. College of the City of New York, Convent Ave. and 139th St., New York City. *Prof. of Chemistry.* (**2,** 1927)

Hart, E. Ross, Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Neurology Branch.* (**3,** 1944)

Hart, William M., Ph.D., M.D. Inst. of Neurological Diseases and Blindness, Bethesda 14, Md. *Chief, Ophthalmology Clin. Center.* (**1,** 1945)

Harte, Robert A., B.S. Sharpe & Dohme, Inc., Research Div., West Point, Pa. *Research Admin.* (**5,** 1953)

Hartline, H. K., M.D. Johns Hopkins Univ., Dept. of Biophysics, Baltimore 18, Md. *Member, Rockefeller Inst. for Med. Research.* (**1,** 1929)

Hartman, Arthur M., B.S. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Div. of Nutrition and Physiology, Beltsville, Md. *Biochemist.* (**5,** 1952)

Hartman, Carl G., Ph.D. Ortho Research Foundation, Raritan, N. J. *Dir. of Physiology.* (**1,** 1921)

Hartman, Frank Alexander, Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Prof.* (**1,** 1916)

Hartman, F. W., M.D. Henry Ford Hospital, Detroit, Mich. *Pathologist and Dir. of Labs.* (**4,** 1927)

Hartmann, Alexis F., M.D. 500 S. Kingshighway, St. Louis, Mo. *Prof. of Pediatrics, Washington Univ. School of Medicine.* (**2,** 1932)

Hartroft, Walter Stanley, M.D., Ph.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto 5, Ontario, Canada. *Professor.* (**4,** 1950)

Harvey, A. McGehee, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Physician-in-Chief; Prof. of Medicine, Johns Hopkins Univ. Med. School.* (**1,** 1946; **3,** 1946)

Harvey, E. Newton, Ph.D., D. Sc. Princeton Univ., Guyot Hall, Princeton, N. J. *Henry Fairfield Osborn Prof. of Biology.* (**1,** 1914; **2R,** 1916)

Harvey, Steward C., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 1 *Assoc. Prof.* (**3,** 1951)

Hass, George, M.D. Presbyterian Hospital of Chicago, Chicago, Ill. *Prof. of Pathology, Univ. of Illinois College of Medicine; Chairman, Rusk Dept. of Pathology, Presbyterian Hospital.* (**4,** 1939)

Hassid, William Z., Ph.D., Univ. of California, Berkeley. *Prof. of Plant Biochemistry.* (**2,** 1946)

Hastings, A. Baird, Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Hamilton Kuhn Prof. of Biological Chemistry.* (**1,** 1927; **2,** 1921; **5,** 1940)

Hathaway, Milicent L., Ph.D. Agricultural Research Administration, Bureau of Human Nutrition and Home Economics, Food and Nutrition Div., Washington 25, D. C. *Nutrition Specialist.* (**5,** 1945)

Hauck, Hazel M., Ph.D. Cornell Univ. College of Home Economics, Ithaca, N. Y. *Prof. of Food and Nutrition.* (**5,** 1941)

Haugaard, Niels, Ph.D. Carlsberg Laboratorium, 10 Gamle Carlsbergvej, Copenhagen, Valby, Denmark. *Asst. Prof. of Physiological Chemistry in Research Medicine (on leave of absence), Univ. of Pa.* (**2,** 1953)

Hauge, Sigfred M., Ph.D. Purdue Univ. Agricultural Exper. Station, Lafayette, Ind. *Assoc. Prof. in Biochemistry.* (**5,** 1933)

Haurowitz, Felix, M.D., D.Sc. Indiana Univ., Bloomington. *Prof. of Chemistry.* (**2,** 1949; **6,** 1948)

Haury, Victor G., M.D. Box 206, Wellsville, Kansas. *Private Practice in Medicine.* (**3,** 1939)

Haven, Frances L., Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Assoc. in Biochemistry.* (**2,** 1941)

Hawk, Philip B., Ph.D. 750 W. 50th St., Miami Beach, Fla. *President.* (**1,** 1903; **2,** 1906)

Hawkins, J. E., Jr., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head, Dept. of Neurophysiology.* (**1,** 1943)

Hawkins, William Bruce, M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Assoc. Prof. of Pathology.* (**4,** 1933)

Hawkins, Winthrop W., Ph.D. Maritime Regional Lab., Natl. Research Council, Halifax, N. S., Canada. *Asst. Research Officer, Natl. Research Council of Canada.* (**2,** 1953)

Hawley, Estelle E., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. in Pediatrics and Nutrition.* (**5,** 1935)

Hawn, Clinton van Zandt, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Pathologist-in-Chief; Assoc. Prof. of Pathology, Columbia Univ.* (**4,** 1948)

Hay, Eleanor Clarke, Ph.D. 7 Greenhill Rd., Madison, N. J. (**1,** 1945)

Hayaishi, Osamu, M.D. Washington Univ. Med.

School, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Asst. Prof., Dept. of Microbiology.* (**2,** 1952)

Hayano, Mika, Ph.D. Worcester Foundation for Exper. Biology, Shrewsbury, Mass. *Research Biochemist.* (**2,** 1952)

Hayashi, Teru, Ph.D. Columbia Univ., 1324 Pupin Hall, New York City 27. *Assoc. Prof. of Zoology.* (**1,** 1951)

Hayes, Sheldon P., Ph.D. Weber College, Dept. of Bacteriology, Box 45, 550 25th St., Ogden, Utah. *Head of Dept.* (**6,** 1953)

Hayman, J. M., Jr., M.D. Tufts College Med. School, 136 Harrison Ave., Boston, Mass. *Dean and Prof. of Medicine.* (**1,** 1928; **3,** 1932)

Haynes, Florence W., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Research Assoc. in Medicine.* (**1,** 1937)

Hays, Edwin Everett, Ph.D. Armour and Co., Research Div., 1425 W. 42nd St., Chicago 9, Ill. *Dir. of Research.* (**2,** 1946)

Hays, Harry W., Ph.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Assoc. Prof. of Pharmacology.* (**3,** 1949)

Haywood, Charlotte, Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**1,** 1939)

Hazen, Elizabeth L., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, 339 E. 25th St., New York City. *Assoc. Bacteriologist (mycology).* (**6,** 1931)

Hazleton, Lloyd W., Ph.D. Box 333, Falls Church, Va. *Pres., Hazelton Labs.* (**3,** 1944)

Hearon, John Z., Ph.D. Oak Ridge Natl. Lab., Mathematics Panel, Oak Ridge, Tenn. *Head Mathematician.* (**1,** 1951)

Hecht, Hans H., M.D. Salt Lake General Hosp., Salt Lake City, Utah. *Assoc. Prof. of Medicine, Univ. of Utah College of Medicine.* (**1,** 1952)

Hechter, Oscar M., Ph.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. (**1,** 1945)

Hegnauer, Albert H., Ph.D. Boston Univ. School of Medicine, Boston, Mass. *Assoc. Prof. of Physiology.* (**1,** 1937)

Hegsted, David Mark, Ph.D. Harvard School of Public Health, Boston, Mass. *Prof. of Nutrition.* (**5,** 1944)

Heidelberger, Charles, Ph.D. Univ. of Wisconsin, McArdle Memorial Lab., Madison 6. *Assoc. Prof. of Oncology.* (**2,** 1950)

Heidelberger, Michael, Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Immunochemistry; Chemist to the Presbyterian Hospital.* (**2R,** 1927; **6,** 1935)

Heilbrunn, Lewis Victor, Ph.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Zoology.* (**1,** 1930)

Heim, J. William, Ph.D. 1 Yale Ave., Dayton 6, Ohio. *Chief, Physiology Branch. Aero-Med. Lab., U. S. Air Force, Wright Field.* (**1,** 1936)

Heinbecker, Peter, M.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Clin. Surgery.* (**1,** 1930)

Heinle, Robert W., M.D. The Upjohn Co., Med. Div., Kalamazoo, Mich. *Member, Dept. of Clinical Investigation.* (**5,** 1948)

Helff, O. M., Ph.D. New York Univ., University Heights, New York City. *Assoc. Prof. of Biology.* (**1,** 1932)

Hellbaum, Arthur A., Ph.D., M.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Pharmacology.* (**1,** 1937; **3,** 1945)

Hellebrandt, Frances Anna, M.D. Univ. of Illinois College of Medicine, Dept. of Physical Medicine and Rehabilitation, 1819 W. Polk St., Chicago 12. *Professor.* (**1,** 1933)

Heller, Carl G., M.D., Ph.D. Univ. of Oregon Med. School, Portland 1. *Assoc. Clinical Prof. of Medicine; Head, Endocrinology Div.* (**1,** 1945)

Heller, Victor G., Ph.D. Oklahoma A and M College, Dept. of Agricultural Chemistry Research, Stillwater. *Research Prof.* (**2R,** 1935; **5R,** 1935)

Hellerman, Leslie, Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935)

Helmer, Oscar Marvin, Ph.D. Lilly Lab. of Clin. Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Head of Dept. of Clin. Biochemistry.* (**2,** 1935)

Hemingway, Allan, Ph.D. Univ. of California School of Medicine, Dept. of Physiology, Los Angeles 24. *Professor.* (**1,** 1933)

Henderson, Francis G., M.D. 740 S. Alabama St., Indianapolis 2, Ind. *Pharmacologist, Eli Lilly & Co.* (**3,** 1950)

Henderson, LaVell M., Ph.D. Univ. of Illinois, Urbana. *Asst. Prof. of Chemistry* (**2,** 1949)

Hendley, Charles D., Ph.D. Armour Labs., Dept. of Pharmacology, 1425 W. 42nd St., Chicago 9, Ill. *Res. Pharmacologist.* (**1,** 1949)

Hendrix, James Paisley, M.D. Duke Hospital, Durham, N. C. *Assoc. Prof. of Medicine, Assoc. in Physiology and Pharmacology, Duke Univ. School of Medicine.* (**3,** 1942)

Hendry, Jessie L., M.A. Div. of Labs. and Research, New York State Dept. of Health, New Scotland Ave., Albany. *Sr. Bacteriologist.* (**6,** 1938)

Henle, Werner, M.D. 1740 Bainbridge St., Philadelphia 46, Pa. *Prof. of Virology in Pediatrics, Univ. of Pennsylvania School of Medicine.* (**6,** 1938)

Henneman, Elwood, M.D., C.M. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Physiology.* (**1,** 1952)

Henry, James P., M.D., M.Sc. Aero-Med. Lab.,

Wright Field, Dayton, Ohio. *Chief, Acceleration Section.* (**1,** 1947)

Henschel, Austin F., Ph.D. Climatic Research Lab., 430 Canal St., Lawrence, Mass. *Dir. of Lab.* (**1,** 1944)

Hepburn, Joseph Samuel, Ph.D., M.D. 2045 N. Franklin St., Philadelphia 22, Pa. *Prof. of Chemistry and Research Assoc. in Gastroenterology; Registrar, Hahnemann Med. College and Hospital, (Emeritus).* (**2R,** 1915)

Hepler, Opal E., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Pathology and Dir. of Labs.* (**4,** 1939)

Heppel, Leon A., Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, USPHS.* (**2,** 1949)

Herbst, Robert M., Ph.D. Kedzie Chemical Lab., Michigan State College, East Lansing. *Prof. of Chemistry.* (**2,** 1938)

Herget, Carl M., Ph.D. 34 Oak Grove Dr., Apt. D, Baltimore 20, Md. *Chief, Biophysics Div., Army Chemical Center, Md.* (**1,** 1948)

Herrick, C. Judson, Ph.D. 236 Morningside Dr., Grand Rapids 6, Mich. *Prof. Emeritus of Neurology, Univ. of Chicago, Chicago, Ill.* (**1R,** 1907)

Herrick, Julia F., Ph.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Exper. Medicine.* (**1,** 1933)

Herrin, Raymond C., Ph.D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physiology.* (**1,** 1932)

Herrington, Lovic P., Ph.D. 290 Congress Ave., New Haven, Conn. *Assoc. Dir., John B. Pierce Lab. of Hygiene; Research Assoc. Prof., Dept. of Public Health, Yale Med. School.* (**1,** 1942)

Herriott, Roger M., Ph.D. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Prof. and Head of Dept. of Biochemistry* (**2,** 1940)

Herrmann, George R., Ph.D., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Medicine; Dir. of Cardiovascular Research.* (**4,** 1925)

Herrmann, Julian B., Ph.B., M.D. 1185 Park Ave., New York City. (**3,** 1941)

Herrmann, Louis George, M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Attending Surgeon; Assoc. Prof. of Surgery, Univ. of Cincinnati College of Medicine.* (**4,** 1933)

Hershey, Solomon G., M.D. New York Univ., Postgraduate Med. School, 235 East 22nd St., New York City 10. *Dir. and Clin. Prof. of Anesthesiology.* (**3,** 1952)

Hertz, Roy, Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Public Health Surgeon (R), Div. of Physiology; Chief, Research Medicine.* (**1,** 1945)

Hertzman, Alrick B., Ph.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Physiology and Dir. of Dept.* (**1,** 1925)

Herwick, Robert P., Ph.D., M.D. 1212 Westview Rd., Glenview, Ill. *Med. Dir., Baxter Labs., Morton Grove, Ill.* (**3,** 1938)

Hess, Charles L., M.D. 19 E. Rose Lane, Phoenix, Ariz. (**1R,** 1916)

Hess, Walter C., Ph.D. Georgetown Med. School, 39th St. and Reservoir Rd., N.W., Washington 7, D. C. *Prof. of Biological Chemistry.* (**2,** 1935)

Hess, Walter Rudolf, M.D. Univ. of Zurich, Physiological Inst., Zurich, Switzerland. *Dir., Swiss Physiological Inst.* (**1H,** 1950)

Heston, Walter E. Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Gen. Biology Section.* (**4,** 1953)

Hetherington, Albert W., Ph.D. Hq., Air Research and Development Center, P.O. Box 1395, Baltimore 3, Md. (**1,** 1943)

Hewetson, Jean Hawks, Ph.D. 115 E. York St., Biglerville, Pa. (**5,** 1944)

Hewitt, Earl Albon, Ph.D. Iowa State College, Ames. *Prof. and Head, Dept. of Veterinary Physiology.* (**1,** 1932)

Hewston, Elizabeth M., M.A. 1121 24th St., N.W., Apt. 300, Washington 7, D. C. *Chemist, Bureau of Human Nutrition and Home Economics.* (**5,** 1950)

Heymans, C., M.D. Univ. of Ghent, 3 Albert Baertsoenkaai, Ghent, Belgium. *Prof. of Pharmacology.* (**3,** 1951)

Heyroth, Francis F., M.D., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Assoc. Prof. of Ind. Toxicology and Asst. Dir., Kettering Lab.; Assoc. Prof. of Biological Chemistry, College of Medicine.* (**2,** 1935)

Hiatt, Edwin P., Ph.D., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Assoc. Prof. of Physiology.* (**1,** 1942)

Hickam, John B., M.D. Duke Hospital, Durham, N.C. *Assoc. Prof. of Medicine, Duke Univ.* (**1,** 1951)

Hickman, Kenneth C. D., Ph.D. 136 Pelham Rd., Rochester 10, N. Y. *Chemical Consultant.* (**2,** 1944)

Hier, Stanley W., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago 9, Ill. *Tech. Asst. to General Manager.* (**2,** 1950)

Hiestand, William A., Ph.D. Purdue Univ., Dept. of Biology, Lafayette, Ind. *Prof. of Physiology.* (**1,** 1947)

Higgins, George M., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Exper. Biology, Mayo Foundation.* (**5,** 1948)

Higgins, Harold Leonard, M.D. 322 Franklin St., Newton, Mass. (**1,** 1914; **5,** 1933)

Highman, Benjamin, M.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Surgeon, Lab. of Pathology and Pharmacology.* (**4,** 1947)

Hightower, Nicholas C., M.D., Ph.D. Scott and White Clinic, Temple, Texas. *Consultant, Int. Medicine.* (**1,** 1952)

Hill, Archibald Vivian, C.H., O.B.E., Sc.D., L.L.D., F.R.S. 16 Bishopswood Rd., London N. 6, England. *Foulerton Research Prof. of Royal Society, Univ. College.* (**1H,** 1950)

Hill, Robert M., Ph.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2,** 1933)

Hill, Samuel E., Ph.D. 135 Brunswick Rd. Troy, N.Y. *Research Worker, The Behr-Manning Corp.* (**1,** 1934)

Hilleman, Maurice, Ph.D. Army Med. Center, Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Washington 12, D. C. *Med. Bacteriologist.* (**6,** 1949)

Hiller, Alma, Ph.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Assoc., Rush Dept. of Biochemistry.* (**2,** 1929)

Hillier, James, Ph.D. Melpar Electronics, Alexandria, Va. *Research Supervisor.* (**1,** 1951)

Himwich, Harold E., M.D. Galesburg State Research Hospital, Galesburg, Ill. *Research Dir.* (**1,** 1925)

Himwich, Williamina A., Ph.D. Galesburg State Research Hospital, Galesburg, Ill. *Biochemist.* (**1,** 1947)

Hine, Charles H., Ph.D., M.D. Univ. of California Med. School, Div. of Pharmacology, Med. Center, San Francisco 22. *Assoc. Clin. Prof.* (**3,** 1947)

Hines, Harry M., Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1928)

Hines, Marion, Ph.D. Emory Univ. Dept. of Anatomy, Emory University, Ga. *Prof. of Exper. Anatomy.* (**1,** 1932)

Hinrichs, M. A., Ph.D., M.D. Univ. of Illinois, Women's Gymnasium, Urbana. *Assoc. Prof. of Health Ed.* (**1,** 1928)

Hinsey, Joseph C., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Anatomy and Dean of the Med. College.* (**1,** 1929)

Hirsch, Frederic G., M.D. 516 Amherst Dr. S.E. Albuquerque, N. M. *Med. Dir.* (**1,** 1951)

Hirschmann, Hans, M.D., Ph.D. Lakeside Hospital, Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry, Dept. of Medicine, Western Reserve Univ.* (**2,** 1946)

Hirst, George K., M.D. Public Health Research Inst., Foot of East 15th St., New York City 9. *Chief, Div. of Infectious Diseases.* (**6,** 1951)

Hirszfeld, Ludwik, M.D. Univ. of Wroclaw, Wroclaw, Ul. Chaubinskiego 4, Poland. *Prof. of Microbiology.* (**6,** 1946)

Hisaw, Frederick L., Ph.D. Harvard Univ. Biological Labs., Cambridge, Mass. *Prof. of Zoology.* (**1,** 1932)

Hitchcock, David I., Ph.D. Yale Univ., 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Physiology.* (**2,** 1930)

Hitchcock, Fred A., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1927; **5,** 1933)

Hitchcock, Philip, Ph.D., M.D. Med. College of Alabama, Birmingham. *Assoc. Prof. of Pharmacology.* (**3,** 1946)

Hitchings, George H., Ph.D. 50 Primrose Ave., Tuckahoe 7, N.Y., *Chief Biochemist, Burroughs-Wellcome Research Labs.* (**2,** 1942)

Hjort, Axel M., M.D., Ph.D. P.O. Box 281, Fern Way, Scarsdale, N. Y. *Private Research Lab. and Practice of Medicine.* (**2,** 1925)

Hoagland, Hudson, Ph.D. 222 Maple Ave., Shrewsbury, Mass. *Exec. Dir., Worcester Foundation for Exper. Biology; Neurophysiologist, Worcester State Hospital.* (**1,** 1932)

Hobby, Gladys L., Ph.D.. 630 Flushing Ave., Brooklyn 6, N. Y. *Research Bacteriologist in charge of Biological Control, Chas. Pfizer & Co.* (**6,** 1946)

Hoberman, Henry D., Ph.D., M.D. 207 Brewster Rd., Scarsdale, N. Y. *Assoc. Prof. of Biochemistry and Biophysics, Albert Einstein College of Medicine, Yeshiva Univ.* (**2,** 1949)

Hoch, Hans, Ph.D. 408 Park St., Charlottesville, Va. *Asst. Prof., Univ. of Virginia.* (**2,** 1952)

Hockett, Robert C., Ph.D. 72 Howell Ave., Larchmont, N. Y. *Consulting Chemist.* (**2,** 1950)

Hodes, Robert, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry, 398 Broadway, New Orleans 12, La. *Prof. of Exper. Neurology and Neurophysiology.* (**1,** 1941)

Hodge, Harold Carpenter, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Pharmacology.* (**2,** 1937; **3,** 1948)

Hodgkin, Alan Lloyd, M.A. Physiological Lab., Cambridge, Eng. *Research Prof.* (**1H,** 1952)

Hoefer, Paul F. A., Ph.D., M.D. Neurological Inst. of New York, 710 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (**1,** 1945)

Hoff, Ebbe Curtis, Ph.D. Med. College of Virginia, Richmond 19. *Prof. of Neurological Science.* (**1,** 1933)

Hoff, Hebbel E., Ph.D. Baylor Univ. College of Medicine, Dept. of Physiology, 1200 M. D. Anderson Blvd., Houston 5, Tex. *B. F. Hambleton Prof. and Chairman of the Dept.* (**1,** 1933)

Hoffbauer, Frederick William. Univ. of Minnesota Hospitals, Dept. of Medicine, Minneapolis 14. *Assoc. Prof. of Medicine.* (**4,** 1952)

Hoffman, William Samuel, Ph.D., M.D. Sidney Hillman Health Centre of Chicago, 333 S. Ashland Blvd., Chicago 7, Ill. *Med. Dir.* (**2,** 1935)

Hofmann, Klaus, Ph.D. Univ. of Pittsburgh Med. School, Dept. of Biochemistry, Pittsburgh, Pa. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1947)

Hogan, Albert G., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Prof. of Animal Nutrition.* (**2R,** 1916; **5,** 1933)

Hogben, C. Adrian M., M.D., Ph.D. Natl. Heart Inst., Bethesda 14, Md. *Physiologist.* (**1,** 1953)

Hogeboom, George Hall, M.D. Natl. Cancer Inst., Natl. Inst. of Health, Bethesda 14, Md. *Med. Officer.* (**2,** 1951)

Hogness, Thorfin R., Ph.D. Univ. of Chicago, 6040 S. Greenwood Ave., Chicago 37, Ill. *Dir., Chicago Midway Labs.* (**2,** 1941)

Holck, Harald G. O., Ph.D. Univ. of Nebraska, College of Pharmacy, Lincoln. *Prof. of Pharmacology.* (**1R,** 1935; **3,** 1938)

Hollaender, Alexander, Ph.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Director.* (**1,** 1947)

Holland, William Cannon, M.D. Vanderbilt Univ. Med. School, Dept. of Pharmacology, Nashville, Tenn. *Asst. Prof.* (**3,** 1951)

Hollander, Franklin, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City. *Assoc. in Physiology; Head, Gastro-enterology Research Lab.* (**1,** 1942; **2,** 1932)

Hollinshead, W. Henry, Ph.D. Mayo Clinic, Rochester, Minn. *Head of Section on Anatomy, Prof. of Anatomy, Mayo Foundation.* (**1,** 1949)

Holm, August, Sc.D. E. R. Squibb & Sons, New Brunswick, N. J. *Research Assoc.* (**6,** 1946)

Holman, Ralph Theodore, Ph.D. Hormel Inst., Austin, Minn. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1948)

Holman, Russell Lowell, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Pathology.* (**4,** 1940)

Holmes, Arthur Dunham, Ph.D. Univ. of Massachusetts, Amherst. *Research Prof. of Chemistry.* (**2R,** 1931; **5R,** 1933)

Holmes, Joseph H., M.D., D.Med.Sc. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver 7. *Prof. of Medicine.* (**1,** 1947)

Holmes, Julia O., Ph.D. 79 Old Town Rd., Amherst, Mass. (**2,** 1942; **5,** 1936)

Holt, Joseph Paynter, M.D., Ph.D. Univ. of Louisville, Inst. for Med. Research, 323 E. Chestnut St., Louisville 2, Ky. *Prof. of Heart Research.* (**1,** 1942)

Holt, L. Emmett, Jr., M.D. 477 First Ave., New York City 16. *Prof. of Pediatrics, New York Univ. College of Medicine.* (**2,** 1930; **5,** 1946)

Hoobler, Icie Macy, Ph.D. 660 Frederick St., Detroit 2, Mich. *Dir., Research Lab. Children's Fund of Michigan.* (**2,** 1925; **5,** 1933)

Hoobler, Sibley W., M.D. Univ. of Michigan Hospital, Dept. of Medicine and Surgery, Ann Arbor. *Assoc. Prof. of Internal Medicine.* (**1,** 1949)

Hooker, Davenport, Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Prof. and Chairman of Dept. of Anatomy.* (**1,** 1920)

Hooker, Sanford B., M.D. Bradford, Vt. (**6R,** 1918)

Hoover, Sam R., Ph.D. 7815 Linden Rd., Philadelphia 18, Pa. *Sr. Chemist, Eastern Regional Research Lab., U.S. Dept. of Agriculture.* (**2,** 1946)

Hoppe, James O., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Assoc. in Pharmacology.* (**3,** 1950)

Hoppert, C. A., Ph.D. Michigan State College, Box 626, East Lansing. *Prof. of Biological Chemistry.* (**5,** 1935)

Hopps, Howard C., M.D. Univ. of Oklahoma School of Medicine, 801N.E. 13th St., Oklahoma City. *Prof. and Chairman of Dept. of Pathology.* (**4,** 1947; **6,** 1946)

Horecker, Bernard L., Ph.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Chief, Section on Enzymes and Metabolism.* (**2,** 1947)

Horn, Millard J., Ph.D. 1811 Varnum St., N.E., Washington 18, D.C. *U.S. Dept. of Agriculture, Chemist.* (**2,** 1949)

Horowitz, Norman H., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Biology.* (**2,** 1946)

Horsfall, Frank L., Jr., M.D. C.M. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member; Physician to the Hospital of the Rockefeller Inst. for Med. Research.* (**6,** 1937)

Horstmann, Dorothy M., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Prof. of Preventive Medicine.* (**6,** 1951)

Horton, Richard G., Ph.D. Med. Labs., Army Chemical Center, Md. *Asst. Chief, Field Toxicology Br.* (**1,** 1948)

Horvath, Steven M., Ph.D. State Univ. of Iowa School of Medicine, Dept. of Physiology, Iowa City. *Professor of Physiology; Dir., Gerontological Inst.* (**1,** 1943)

Horwitt, Benjamin N., Ph.D. Ochsner Med. Foundation, 3503 Pyrtania St., New Orleans 15, La. *Research Assoc.; Asst. Prof. of Medicine; Lecturer in Biochemistry, Tulane Univ.* (**2,** 1953)

Horwitt, M. K., Ph.D. Biochemical Research Lab., Elgin State Hospital, Elgin, Ill. *Director.* (**2,** 1941; **5,** 1949)

Hoskins, R. G., Ph.D., M.D. 86 Varick Rd., Waban 68, Mass. (**1R,** 1911)

Hotchkiss, Rollin D., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Assoc. Member.* (**2,** 1941)

Hou, H. C., M.D. Te Erk Chun Med. Univ., 372 Wu Kang Rd., Shanghai, China. *Prof. of Biochemistry and Head of Dept.* (**5,** 1949)

Houck, C. Riley, Ph.D. Univ. of Tennessee Med. School, Memphis 3. *Assoc. Prof. in Physiology.* (**1,** 1947)

Houde, Raymond W., M.D. 444 E. 68th St., New York City 21. *Asst. Prof. of Medicine, Sloan-Kettering Div., Cornell Univ. Med. School.* (**3,** 1953)

Houssay, Bernardo A., M.D. Viamonte 2790, Buenos Aires, Argentina. *Dir. and Prof. of Physiology.* (**1H,** 1942)

Hove, Edwin L., Ph.D. Alabama Polytechnic Inst., Lab. of Animal Nutrition, Auburn. *Professor.* (**5,** 1946)

Howard, Evelyn, Ph.D. Johns Hopkins School of Medicine, Baltimore, Md. *Asst. Prof. of Physiology.* (**1,** 1933)

Howard, John Eager, M.D. 1101 St. Paul St., Baltimore 2, Md. (**1,** 1946)

Howard, Marion E., M.D. 158 Whitney Ave., New Haven, Conn. *Editor, Drug Publ. and Assoc. Clin. Prof. of Medicine, Yale School of Medicine; Assoc. Physician, New Haven Hospital and New Haven Dispensary.* (**4,** 1939; **6,** 1937)

Howe, Calderon, M.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Mirobiology.* (**6,** 1953)

Howe, Eugene E., Ph.D. R. D. 1, Bound Brook, N. J. *Mgr. of Natural Prods. Process Development, Merck and Co., Inc.* (**2,** 1953)

Howe, Howard A., Ph.D. Johns Hopkins Univ., 1901 East Madison St., Baltimore 5, Md. *Adjunct Prof. of Epidemiology.* (**6,** 1949)

Howe, Paul E., Ph.D. U.S. Dept. of Agriculture, Bureau of Animal Ind., Washington 25, D. C, *Nutrition Consultant.* (**1,** 1913; **2R,** 1909; **5R,** 1933)

Howell, Stacey F., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1940)

Howland, Joe W., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Radiation Biology; Chief, Med. Div. Atomic Energy Project, Univ. of Rochester School of Medicine.* (**1,** 1949; **4,** 1951)

Huang, H. T., Ph.D. 1923 B Mather Way, Elkins Park 17, Pa. *Research Chemist, Rohm and Haas Co., Philadelphia.* (**2,** 1953)

Hubbard, Roger Sanford, Ph.D. Univ. of Buffalo School of Medicine, 3435 Main St., Buffalo, 14 N. Y. *Prof. of Pharmacology.*(**1,** 1922; **2,** 1920)

Hubbard, Ruth H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge, Mass. *Research Fellow.* (**2,** 1953)

Hubbell, Rebecca B., Ph.D. Connecticut Agricultural Exper. Station, New Haven. *Assoc. Biochemist.* (**2R,** 1937; **5,** 1935)

Hudack, Stephen Sylvester, M.D. St. Luke's Hospital, 11311 Shaker Blvd., Cleveland 4, Ohio. *Dir., Surgical Research.* (**4,** 1953)

Huddleston, Ora L., M.D., Ph.D. Kabat-Kaiser Inst., 1815 Ocean Front, Santa Monica, Calif. *Med. Dir.* (**1,** 1936)

Huennekens, Frank M., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Asst. Prof.* (**2,** 1952)

Hueper, Wilhelm C., M.D. Natl. Cancer Inst. Bethesda, Md. *Chief, Cancerigenic Studies Section; Chief, Cancerigenic Research Labs.* (**4,** 1940)

Huf, Ernst G., Ph.D., M.D. 1417 Avondale Ave., Richmond, Va. *Assoc. Prof. of Physiology, Med. College of Virginia.* (**1,** 1949)

Huff, Jesse W., Ph.D. Sharp & Dohme, Inc., West Point, Pa. *Dir., Biochemical Research.* (**2,** 1949)

Huffman, C. F., Ph.D. Michigan State College, East Lansing. *Research Prof. and Prof. in Dairy Husbandry.* (**5,** 1937)

Huffman, Max N., Ph.D. Oklahoma Med. Research Fndn., 825 N. E. 13th St., Oklahoma City 4. *Head, Sec. of Organic Chemistry; Prof. of Research Biochemistry, Univ. of Oklahoma, School of Medicine.* (**2,** 1947)

Huggins, Charles Brenton, M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Surgery.* (**1,** 1932)

Huggins, Russell A., Ph.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston 5, Tex. *Prof. of Pharmacology.* (**1,** 1952; **3,** 1949)

Hughes, Hettie B., Ph.D. Christ Hospital, Cincinnati 19, Ohio. *Research Assoc.* (**2,** 1946)

Hughes, Joseph, M.D. 111 N. 49th St., Philadelphia, Pa. *Asst. Prof. of Exper. Neurology, Grad. School of Medicine, Univ. of Pennsylvania; Dir. of Lab., Pennsylvania Hospital for Mental Diseases.* (**1,** 1936)

Hughes, Josiah Simpson, Ph.D. Kansas State College, Manhattan. *Prof. of Chemistry.* (**2R,** 1931; **5,** 1939)

Hughes, Thomas P., Ph.D. Dept. Nacional de Salud, Apartado 935, Panama City, R. P. (**6,** 1934)

Hulpieu, Harold R., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Pharmacology.* (**3,** 1939)

Hummel, John P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Assoc. Prof.* (**2,** 1952)

Humphries, James C., Ph.D. Univ. of Kentucky, Dept. of Bacteriology, Lexington. *Assoc. Prof. of Bacteriology.* (**6,** 1950)

Hundley, James M., M.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda 14, Md. *Chief, Section on Nutrition.* (**5,** 1950)

Hunscher, Helen A., Ph.D. Western Reserve Univ., 2023 Adelbert Rd., Cleveland 6, Ohio. *Head of Dept. of Home Economics.* (**5,** 1934)

Hunt, Carlton C., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Associate.* (**1,** 1950)

Hunter, Andrew, C.B.E., M.B. Hospital for Sick Children, Toronto, Ontario, Canada. *Consulting Biochemist; Prof. Emeritus of Pathological Chemistry, Univ. of Toronto.* (**2R,** 1908)

Hunter, F. R., Ph.D. Florida State Univ., Dept.

of Physiology, Tallahassee. *Prof. and Head of Dept.* (**1,** 1952)

Hunter, Francis Edmund, Jr., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Assoc. Prof. of Pharmacology.* (**2,** 1946; **3,** 1951).

Hunter, Jesse E., Ph.D. Allied Mills, Inc., Research Labs., Box 459, Libertyville, Ill. *Dir. of Research.* (**5,** 1936)

Hunter, John, Ph.D. Defense Research Med. Labs., Box 62, Postal Sta., Toronto, Ontario, Canada. *Chief, Applied Physiology Section.* (**1,** 1948)

Hutchens, John O., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Assoc. Prof. and Chairman of Dept. of Physiology; Dir. of Toxicity Lab.* (**1,** 1947)

Hutchings, Brian L., Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Asst. Dir. of Chemical and Biological Research.* (**2,** 1949)

Hwang, Kao, M.D., Ph.D. Abbott Labs., N. Chicago, Ill. *Sr. Pharmacologist.* (**3,** 1953)

Hyde, Jane E., Ph.D. 84 Mountain Ave., Summit, N. J. (**1,** 1951)

Hyman, Chester, Ph.D. Univ. of Southern California, Dept. of Physiology, Los Angeles 7. *Assoc. Prof.* (**1,** 1948)

Ingalls, Mabel S., Ph.D. 860 Fifth Ave., New York City 21. *Consultant, World Health Organization, Lake Success.* (**6,** 1940)

Ingle, Dwight J., Ph.D. Univ. of Chicago, The Ben May Lab. for Cancer Research, Chicago, Ill. *Prof. of Physiology.* (**1,** 1939)

Ingraham, Raymond Clifford, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Assoc. Prof. in Physiology.* (**1,** 1938)

Ingram, W. R., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Prof. and Head of Dept. of Anatomy.* (**1,** 1936)

Ipsen, Johannes, Jr., M.D. Massachusetts Dept. of Public Health, 375 South St., Jamaica Plain. *Assoc. Prof. of Public Health; Superintendent, Inst. of Labs.* (**6,** 1953)

Irish, Don D., Ph.D. Dow Chemical Co., Midland, Mich. *Dir., Biochemical Research Lab.* (**3,** 1948)

Irvin, Elinor Moore, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Biological Chemistry and Nutrition, Chapel Hill. *Guest Investigator.* (**2,** 1951)

Irvin, J. Logan, Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. Biological Chemistry and Nutrition.* (**2,** 1942)

Irving, George Washington, Jr., Ph.D. U. S. Dept. of Agriculture, Bureau of Agricultural and Industrial Chemistry, South Bldg., Washington 25, D. C. *Asst. Chief.* (**2,** 1946)

Irving, Laurence, Ph.D. USPHS, P.O. Box 960, Anchorage, Alaska. *Biologist, Alaska Health and Sanitation Activities.* (**1,** 1927)

Irwin, M. R., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Genetics.* (**6,** 1936)

Isaacs, Raphael, M.D. 104 S. Michigan Ave., Suite 630, Chicago 3, Ill. (**4,** 1928)

Isbell, Harris, M.D. USPHS Hospital, Lexington, Ky. *Dir., Research Div.* (**3,** 1949)

Isenberger, R. M., M.D. Univ. of Kansas School of Medicine, Kansas City. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1937)

Itano, Harvey A., M.D., Ph.D. Gates and Crellin Labs. of Chemistry. California Inst. of Technology, 1201 E. California St., Pasadena 4. *Sr. Research Fellow in Chemistry, Calif. Inst. Tech.; Sr. Asst. Surgeon, USPHS.* (**2,** 1953)

Ivy, A. C., Ph.D., M.D. Univ. of Illinois, Chicago Professional Colleges, Chicago, Ill. *Vice-Pres.; Distinguished Service Prof. of Physiology.* (**1,** 1919; **5,** 1933)

Iwamoto, Harry K., Ph.D. Univ. of Buffalo, Schools of Medicine and Pharmacy, Dept. of Pharmacology, Buffalo 14, N. Y. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Izquierdo, J. Joaquin, M.D. Natl. School of Medicine, Mexico City. *Prof. of Physiology in Natl. School of Medicine and the Escuela Medico Militar of Mexico.* (**1,** 1928)

Jackson, Dennis Emerson, Ph.D., M.D. 144 Louis Ave., Cincinnati 20, Ohio. *Prof. Emeritus of Pharmacology, Univ. of Cincinnati College of Medicine.* (**1R,** 1910; **3R,** 1912)

Jackson, Elizabeth B., A.B. Army Med. Center, Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Washington 12, D. C. *Bacteriologist.* (**6,** 1949)

Jackson, Eugene L., Ph.D. 1407 Cummings Dr., Richmond, Va. *Med. Dir., A. H. Robins Co.* (**3,** 1942)

Jackson, Richard W., Ph.D. U. S. Dept. of Agriculture, Northern Regional Research Lab., 825 N. University St., Peoria 5, Ill. *Head of Fermentation Div.* (**2,** 1930; **5,** 1933)

Jackson, Robert L., M.D. State Univ. of Iowa, Dept. of Pediatrics, Iowa City. *Professor.* (**5,** 1953)

Jacobs, Merkel Henry, Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia. *Prof. of General Physiology.* (**1,** 1919)

Jacobs, Walter A., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**2R,** 1908; **3,** 1913)

Jacobsen, Erik, M.D. Medicinalco Ltd., Copenhagen S, Denmark. *Research Dir.* (**3,** 1950)

Jacobson, Edmund, Ph.D., M.D. Lab. for Clin. Physiology, 55 E. Washington St., Chicago, Ill. *Director.* (**1,** 1929)

Jacobson, Leon O., M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine; Dir. of Argonne Cancer Research Hosp.* (**4,** 1953)

Jaffe, Henry L., M.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Dir. of Labs.* (**4,** 1925)

Jahn, Theodore Louis, Ph.D. Univ. of California, Los Angeles 24. *Chairman, Dept. of Zoology.* (**1,** 1944)

Jailer, Joseph W., M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City. *Asst. Prof. of Medicine.* (**1,** 1948).

Jamieson, Walter A., Sc.D. Green Braes, R.R. 18, Box 286, Indianapolis 24, Ind. (**6,** 1927)

Jandorf, Bernard J., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Enzyme Chemistry Branch.* (**2,** 1946)

Janes, Ralph G., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Anatomy.* (**1,** 1948)

Janowitz, Henry D., M.D. Mt. Sinai Hospital, Gastroenterology Research Lab., 1 E. 100th St., New York City 29. (**1,** 1951)

Jansen, Eugene F., B.A. Western Regional Research Lab., 800 Buchanan St., Albany 6, Calif. *Head, Fruit Processing Div.* (**2,** 1947)

Jaques, L. B., Ph.D. Univ. of Saskatchewan, Saskatoon, Canada. *Prof. and Head of Dept. of Physiology and Pharmocology.* (**1,** 1943)

Jarcho, Leonard W., M.D. Veterans Administration Hospital, 12th Ave. and E St., Salt Lake City 3, Utah. *Asst. Prof. of Medicine; Asst. Chief of Med. Ser.* (**1,** 1951)

Jasper, Herbert H., Ph.D., D. és Sc. (Paris), M.D. Montreal Neurological Inst., 3801 University St., Montreal, Quebec, Canada. *Head, Dept. of Neurophysiology; Prof. of Exper. Neurology, McGill Univ.* (**1,** 1940)

Jawetz, Ernest, Ph.D., M.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Prof. of Microbiology; Lecturer in Medicine and Pediatrics.* (**6,** 1950)

Jenness, Robert, Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 13. *Professor.* (**2,** 1953)

Jensen, Hans F., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Head, Biochemistry Dept.* (**2,** 1929)

Joachimoglu, George, M.D. 3A Lykeiou St., Athens, Greece. *Prof. of Pharmacology.* (**3,** 1951)

Jobling, James W., M.D. Suwanee Hotel, St. Petersburg, Fla. *Prof. Emeritus of Pathology, Columbia Univ.* (**4R,** 1913)

Jochim, Kenneth E., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Prof. and Chairman of Dept. of Physiology; Asst. Dean of Med. School.* (**1,** 1942)

Johlin, J. M., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Biochemistry.* (**2R,** 1928)

Johnson, B. Connor, Ph.D. Univ. of Illinois, Div. of Animal Nutrition, 554 Davenport Hall, Urbana. *Prof. of Animal Nutrition* (**2,** 1947; **5,** 1947)

Johnson, Frank H., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Assoc. Prof. of Biology.* (**1,** 1942)

Johnson, Joseph L., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Dean, College of Medicine.* (**1,** 1934)

Johnson, J. Raymond, Ph.D. Creighton Univ. School of Medicine, Dept. of Physiology and Pharmacology, Omaha 2, Nebr. *Prof. and Dir. of Dept.* (**1,** 1938)

Johnson, Marvin J., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1941)

Johnson, Ralph M., Ph.D. Detroit Inst. of Cancer Research, 4811 John R. St., Detroit 1, Mich. *Research Assoc.; Asst. Prof., Physiological Chemistry, Wayne Univ. College of Medicine.* (**2,** 1952)

Johnson, Robert E., M.D., Ph.D. Univ. of Illinois College of Liberal Arts and Sciences, Dept. of Physiology, Urbana. *Head of Dept.* (**1,** 1944; **2,** 1939; **5,** 1946)

Johnson, S. R., Ph.D. Missouri Farmers Assoc. Milling Co., Springfield. *Dir. of Nutrition.* (**5,** 1947)

Johnson, Victor, Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Director.* (**1,** 1933)

Johnston, Charles G., M.D. Wayne Univ. College of Medicine, Detroit, Mich. *Chairman, Div. of Surgery.* (**1,** 1933)

Johnston, Frances A., Ph.D. Cornell Univ., Ithaca, N. Y. *Assoc. Prof. of Foods and Nutrition.* (**5,** 1948)

Johnston, Margaret W., Ph.D. P. O. Box 276, Ann Arbor, Mich. (**2,** 1930; **5,** 1938)

Jolliffe, Norman, M.D. 910 Park Ave., New York City 21. *Dir. Bureau of Nutrition.* (**1,** 1932)

Jones, D. Breese, Ph.D. 2901 18th St., N.W., Washington 9, D. C. *Retired.* (**2R,** 1920; **5R,** 1935)

Jones, Hardin B., Ph.D. Univ. of California, Div. of Med. Physics, Berkeley 4. *Asst. Prof. of Med. Physics and Physiology; Asst. Dir. of Donner Lab.* (**1,** 1949)

Jones, James H., Ph.D. Univ. of Pennsylvania School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiological Chemistry.* (**2,** 1928; **5,** 1933)

Jones, Kenneth K., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology.* (**1R,** 1936)

Jones, L. Meyer. Ph.D. Iowa State College, Ames. *Prof. of Veterinary Pharmacology.* (**3,** 1953)

Jones, Ralph, Jr., M.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Asst. in Medicine.* (**3,** 1950)

Jones, Russell S. Univ. of Oregon Med. School, Dept. of Pathology, Portland. (**4,** 1952)

Joseph, Norman R., Ph.D. Univ. of Illinois, 1853 W. Polk St., Chicago 12. *Asst. Prof. of Chemistry.* (**2,** 1947)

Joslin, Elliott P., M.D., 81 Bay State Rd., Boston, Mass. *Dir., George F. Baker Clinic.* (**5R,** 1933)

Jukes, Thomas Hughes, Ph.D. Lederle Labs., Pearl River, N. Y. *Head, Dept. of Nutrition and Physiology Research.* (**2,** 1935; **5,** 1938)

Jung, Frederic Theodore, Ph.D., M.D. American Med. Assoc., Chicago, Ill. *Dir. of Physical Lab.* (**1,** 1930)

Jungck, Edwin C., M.D., Ph.D. 138 Mayer Dr., Savannah, Ga. (**1,** 1952)

Jungeblut, Claus W., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Bacteriology.* (**4,** 1929; **6,** 1926)

Kabat, Elvin A., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Microbiology.* (**2,** 1940; **6,** 1943)

Kabat, Herman, Ph.D., M.D. 2600 Alameda St., Vallejo, Calif. (**1,** 1941)

Kagan, Benjamin M., M.D. Michael Reese Hospital, Dept. of Pediatric Research, Chicago, Ill. *Director.* (**5,** 1953)

Kahn, Reuben L., Sc.D., Univ. of Michigan Hospital, Ann Arbor. *Assoc. Prof. of Serology of Syphilis and Chief of Serology Lab.* (**4,** 1934; **6,** 1919)

Kalckar, Herman M., M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Visiting Prof., N.I.H.; Research Prof., Univ. of Copenhagen.* (**2,** 1942)

Kalnitsky, George, Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Kalow, Werner, M.D. Univ. of Toronto, Dept. of Pharmacology, Toronto 5, Canada. *Asst. Prof. of Pharmacology.* (**3,** 1951)

Kalter, Seymour Sanford, Ph.D. Syracuse Univ., College of Medicine, Dept. of Microbiology, Syracuse, N. Y. *Dir., Virus Lab.; Assoc. Prof., Dept. of Microbiology.* (**6,** 1950)

Kamen, Martin D., Ph.D. Washington Univ. Med. School, 510 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Chemistry.* (**2,** 1946)

Kamijo, Kazuya, M.D., Ph.D. Univ. of Pennsylvania, Grad. School of Medicine, Philadelphia 4. *Instructor.* (**3,** 1953)

Kamin, Henry, Ph.D. Duke Hospital, Box 3344, Durham, N. C. *Assoc. in Biochemistry, Duke Univ. School of Medicine; Principal Scientist, Radio-Isotope Unit, VA Hospital, Durham.* (2, 1953)

Kamm, Oliver, Ph.D. 365 Lakeshore Drive, Detroit 30, Mich. *Research Consultant, Parke, Davis and Co.* (**2R,** 1928)

Kaplan, Alex, Ph.D. Michael Reese Hospital, Med. Research Inst., Chicago 16, Ill. *Asst. Dir., Dept. of Biochemistry.* (**1,** 1951)

Kaplan, Nathan O., Ph.D. Johns Hopkins Univ., McCallum-Pratt Inst., Baltimore 18, Md. *Assoc. Prof. of Biology.* (**2,** 1949)

Karczmar, Alexander J., Ph.D. Georgetown Univ. Med. School, Dept. of Pharmacology, Washington 7, D. C. *Assoc. Prof.* (**3,** 1953)

Karel, Leonard, Ph.D. Natl. Insts. of Health, Div. of Research Grants and Fellowships, Bethesda 14, Md. *Chief, Extramural Programs, Natl. Microbiological Inst.* (**3,** 1947)

Karlson, Alfred G., Ph.D., D.V.M. Mayo Foundation, Rochester, Minn. *Assoc. in Exper. Pathology.* (**4,** 1950)

Karnovsky, Manfred L., Ph.D. Harvard Med. School, Biophysical Lab., 25 Shattuck St., Boston 15, Mass. *Asst. Prof., Biological Chemistry.* (**2,** 1951)

Karpovich, Peter V., M.D.,M.P.E. Springfield College, Springfield, Mass. *Prof. of Physiology.* (**1,** 1942)

Karshan, Maxwell, Ph.D. Columbia Univ., Dept. of Biological Chemistry, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1939)

Karsner, Howard T., M.D. Dept. of the Navy, Bureau of Medicine and Surgery, Research Div., Washington 25, D. C. *Med. Research Advisor.* (**4,** 1913)

Karush, Fred, Ph.D. Children's Hospital of Philadelphia, 1740 Bainbridge St., Philadelphia 46, Pa. *Asst. Prof. of Immunology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1952)

Karzon, David T., M.D. Children's Hospital, 219 Bryant St., Buffalo 22, N. Y. *Asst. Prof. of Pediatrics; Dir., Virology Lab.* (**6,** 1953)

Katz, Louis Nelson, M.D. 2900 Ellis Ave., Chicago, Ill. *Dir. of Cardiovascular Research, Michael Reese Hospital.* (**1,** 1924)

Katzman, Philip A., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Prof. of Biochemistry.* (**2,** 1935)

Kaufman, Nathan. Cleveland City Hospital, 3495 Scranton, Rd., Cleveland 9, Ohio. *Pathologist-in-Charge, Cleveland City Hosp.; Asst. Prof. of Pathology, Western Reserve Univ.* (**4,** 1953)

Kaufman, Seymour, Ph.D. New York Univ. College of Medicine, Dept. of Pharmacology, 477 First Ave., New York City 16. *Asst. Prof.* (2, 1953)

Kaulbersz, Jerzy, Ph.D. M.D. Collegium Medica, Grzegorzecka 16, Cracow, Poland. *Prof. of Physiology.* (**1,** 1944)

Kaunitz, Hans, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Research Assoc. in Pathology.* (**4,** 1947)

Kazal, Louis Anthony, Ph.D. Sharp & Dohme, Inc., Research Div., Glenolden, Pa. *Dir., Biological Development.* (**2,** 1947)

Kearney, Edna B., Ph.D. Inst. for Enzyme Research, 1702 University Ave., Madison 5, Wis. *Sr. Research Assoc.* (**2,** 1953)

Keasling, Hugh H., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Asst. Prof. of Pharmacology.* (**3,** 1953)

Keats, Arthur S., M.D. Mary Imogene Bassett Hosp., Cooperstown, N. Y. *Anesthesiologist.* (**3,** 1951)

Keeton, Robert W., M.D. 1500 Hinman Ave., Evanston, Ill. *Prof. Emeritus of Medicine, Univ. of Illinois, College of Medicine.* (**1,** 1916; **3,** 1924)

Kehoe, Robert A., M.D. Univ. of Cincinnati College of Medicine, Kettering Lab. of Applied Physiology, Eden Ave., Cincinnati, Ohio. *Research Prof. of Physiology.* (**1,** 1940)

Keiles, Elsa Orent, D.Sc. Natl. Insts. of Health, Div. of Research Grants, Bethesda 14, Md. *Biochemist.* (**2,** 1935; **5,** 1935)

Keith, Norman M., M.D. Mayo Clinic, Rochester, Minn. *Consulting Physician Emeritus, Div. of Medicine, Mayo Clinic; Prof. of Medicine Emeritus, Mayo Foundation, Univ. of Minnesota.* (**1,** 1920; **3R,** 1932; **4,** 1924)

Keith, T. B., Ph.D. Dept. of Animal Husbandry, Univ. of Idaho, Moscow. *Professor.* (**5,** 1941)

Kellaway, Peter E., Ph.D. Baylor Univ. College of Medicine, Houston, Texas. *Assoc. Prof. of Neuropsychiatry and Physiology; Dir. of Lab. of Clin. Electrophysiology.* (**1,** 1947)

Keller, Allen D., Ph.D. Army Med. Research Lab., Fort Knox, Ky. (**1,** 1931)

Kellner, Aaron, M.D. Cornell Univ. Med. College, Dept. of Pathology, 1300 York Ave., New York City 21. *Asst. Prof. of Pathology; Dir. of Central Labs., New York Hospital–Cornell Med. Center.* (**4,** 1949)

Kelsey, F. Ellis, Ph.D. Univ. of South Dakota, Dept. of Pharmacology, Vermillion. *Prof. of Pharmacology; Chairman of Depts. of Physiology and of Pharmacology.* (**3,** 1941)

Kelsey, Frances Kathleen O., Ph.D., M.D. Sacred Heart Hosp., Vermillion, S. D. (**3,** 1941)

Kemmerer, A. R., Ph.D. Univ. of Arizona, Tucson. *Head of Dept. of Human Nutrition.* (**5,** 1946)

Kempe, Henry C. M.D. Univ. of California, School of Medicine, Dept. of Pediatrics, San Francisco 22. *Asst. Prof.* (**6,** 1951)

Kempner, Walter, M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Medicine.* (**1,** 1940)

Kendall, Edward C., Ph.D. 3 Queenston Place, Princeton, N. J. *Visiting Prof. in Chemistry, James Forrestal Research Center, Princeton Univ.* (**1,** 1916; **2R,** 1913; **4,** prior to 1920).

Kendall, Forrest E., Ph.D. 240-06-53rd Ave., Douglaston, Long Island, N. Y. *Asst. Prof. of Biochemistry, Research Service, Columbia Div., Goldwater Memorial Hospital Welfare Island.* (**6,** 1943)

Kennard, Margaret A., M.D. Univ. of British Columbia, Hut S-4, Vancouver, B. C., Canada. (**1,** 1934)

Kennedy, Cornelia, Ph.D. 2700 W. Robbins St., Minneapolis 10, Minn. *Prof. Emeritus of Agricultural Biochemistry, Univ. of Minnesota.* (**2R,** 1924; **5R,** 1934)

Kennedy, Eugene P., Ph.D. Univ. of Chicago, Ben May Lab., Chicago 37, Ill. *Asst. Prof.* (**2,** 1953)

Kennedy, Thomas J., Jr., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Research Assoc., Lab. of Kidney and Electrolyte Physiology.* (**1,** 1953)

Kensler, Charles J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof., Dept. of Pharmacology;* (**3,** 1949)

Kent, John F., Ph.D. Army Med. Center, Washington 12, D. C. *Chief, Dept. of Serology, Army Med. Service Grad. School.* (**6,** 1947)

Kenton, Harold B., Ph.D. New England Deaconess Hospital, Boston, Mass. *Bacteriologist and Dir. of the Blood Bank.* (**6,** 1934)

Kenyon, Allan T., M.D. Univ. of Chicago, Div. of Biological Sciences, 950 E. 59th St., Chicago, Ill. *Asst. Prof. of Medicine.* (**3,** 1940)

Keresztesy, John C., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Section on Fractionation and Isolation.* (**2,** 1941; **5,** 1945)

Kerr, Stanley E., Ph.D. American Univ. of Beirut, Beirut, Lebanon. *Prof. of Biological Chemistry.* (**2,** 1937)

Kerr, Wm. J., M.D. Univ. of California Hospital, 3rd and Parnassus Aves., San Francisco. *Physician-in-Chief; Prof. of Medicine, Univ. of California.* (**3,** 1930)

Kesten, Homer D., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Pathology, Columbia Univ.; Dir. of Labs., White Plains Hosp.* (**4,** 1931)

Keston, Albert S., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Kety, Seymour S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Scientific Dir. in charge of Re-*

search, Natl. Inst. of Mental Health and Inst. of Neurology and Blindness. (**1,** 1949; **3,** 1945)

Keys, Ancel, Ph.D. Univ. of Minnesota, Stadium Gate 27, Minneapolis 14. *Prof. and Dir. of Lab. of Physiological Hygiene.* (**1,** 1939; **2,** 1936)

Kibrick, Andre C., Ph.D. New York Univ., College of Medicine, 477 First Ave., New York City 16. *Biochemist, V.A. Hosp., Brooklyn.* (**2,** 1950)

Kidd, John G., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Pathology; Pathologist, New York Hospital.* (**4,** 1937; **6,** 1937)

Kidder, George W., Ph.D. Amherst College, Amherst, Mass. *Stone Prof. of Biology.* (**2,** 1949)

Kielley, William W., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chemist.* (**2,** 1953)

Kies, Marian W., Ph.D. Natl. Inst. of Mental Health, Bethesda 14, Md. *Biochemist, Clinical Investigations Div.* (**2,** 1948)

Kik, M. C., Ph.D. Univ. of Arkansas College of Agriculture, Fayetteville. *Prof. of Agricultural Chemistry.* (**5,** 1942)

Kilborn, L. G., M.D., Ph.D. Univ. of Hong Kong, Dept. of Physiology, Hong Kong. *Prof. of Physiology.* (**1,** 1928)

Kilbourne, Edwin Dennis, M.D. Tulane Univ., 1430 Tulane Ave., New Orleans, La. *Assoc. Prof. of Medicine.* (**6,** 1953)

Kilham, Lawrence, M.D., Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, USPHS.* (**6,** 1950)

Killian, John Allen, Ph.D. Killian Research Labs., Inc., 49 W. 45th St., New York City. (**2,** 1921)

Kimura, Kazuo K., Ph.D. St. Louis Univ. School of Medicine, Dept. of Pharmacology, St. Louis 4, Mo. *Asst. Prof.* (**3,** 1950)

Kinard, F. W., Ph.D., M.D. Med. College of the State of South Carolina, Charleston 16. *Prof. of Physiology.* (**1,** 1947)

King, Barry G., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Med. Service, Safety Regulations, Washington, D. C. *Chief, Aeromed. Design and Material Div.* (**1,** 1938)

King, Charles Glen, Ph.D. Nutrition Foundation, Inc., Chrysler Building, New York City. *Scientific Dir.; Prof. of Chemistry, Columbia Univ.* (**2,** 1931; **5,** 1933)

King, Ellen Eva, Ph.D. Veterans Admin. Hospital, Dept. of Investigative Medicine, Long Beach, Calif. *Jr. Research Pharmacologist, U.C.L.A., Dept. of Anatomy.* (**3,** 1953)

King, Henry Eugene, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry and Neurology, 1430 Tulane Ave., New Orleans 12, La. *Assoc. Prof.* (**1,** 1950)

King, Jesse, Ph.D Towson, Md. (**1R,** 1914)

King, Joseph T., M.D., Ph.D. Univ. of Minnesota Med. School, 314 Millard Hall, Minneapolis. *Assoc. Prof. of Physiology.* (**1,** 1931)

King, Tsoo E., Ph.D. Oregon State College, Dept. of Chemistry, Corvallis. *Assoc. Prof.* (**2,** 1952)

Kinney, Thomas D., M.D. Cleveland City Hospital, 3395 Scranton Rd., Cleveland, Ohio. *Dir. of Labs.; Prof. of Pathology, Western Reserve Univ.* (**4,** 1950)

Kirch, Ernst R., Ph.D. Univ. of Illinois, 808 S. Wood St., Chicago 12. *Prof. of Chemistry.* (**2,** 1948)

Kirchhof, Anton C., M.D. 758 S. View Rd., Oswego, Ore. *Anesthesiologist, Providence Hospital.* (**3,** 1947)

Kirk, John E., M.D. Washington Univ. School of Medicine, 5600 Arsenal St., St. Louis 9, Mo. *Research Dir., Gerontology.* (**2,** 1950)

Kirk, Paul L., Ph.D. Univ. of California, Berkeley. *Prof. of Biochemistry and Criminology.* (**2,** 1933)

Kirschbaum, Arthur, M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Prof. of Anatomy.* (**4,** 1948)

Kisch, Bruno, M.D. Yeshiva Univ., New York City. *Prof. of Biochemistry.* (**1,** 1943)

Kitchen, Stuart F., M.D. Dept. of Natl. Health and Welfare, Lab. of Hygiene, Ottawa, Ont., Canada. (**6,** 1953)

Kleiber, M., D.Sc. Univ. of California, Davis. *Prof. of Animal Husbandry.* (**1,** 1943; **5,** 1933)

Klein, J. Raymond, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biochemist, Dept. of Biology.* (**2,** 1941)

Kleiner, Israel Simon, Ph.D. New York Med. College and Flower and Fifth Ave. Hospital, New York City 29. *Prof. of Biochemistry, Dir., Dept. of Biochemistry.* (**1,** 1911; **2,** 1912; **3R,** 1912; **5R,** 1933)

Kleitman, Nathaniel, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (**1,** 1923)

Klemperer, Friedrich W., M.D. Veterans Admin. Hospital, Sunmount, New York. *Chief of Med. Service.* (**2,** 1941)

Kletzien, Seymour W., Ph.D. 319 S. Chester Rd., Swarthmore, Pa. *Biochemist, Cooper Hosp.* (**5,** 1933)

Kline, O. L., Ph.D. Dept. of Health, Education and Welfare, Food and Drug Admin., Washington, D. C. *Biochemist.* (**5,** 1936)

Kline, Raymond F., Ph.D. 6832 Knollwood Dr., Dayton 3, Ohio. *Research Physiologist, Aero Med. Lab., Wright Air Development Center, Wright-Patterson Air Force Base.* (**1,** 1946)

Klotz, Irving M., Ph.D. Northwestern Univ., Evanston, Ill. *Prof. of Chemistry* (**2,** 1947)

Klüver, Heinrich, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Exper. Psychology.* (**1,** 1935)

Knight, C. Arthur, Ph.D. Univ. of California,

Biochemistry and Virus Lab., Berkeley 4. *Assoc. Prof.* (**2,** 1946)

Knisely, Melvin H., Ph.D. Med. College of South Carolina, Charleston. *Chairman of Dept. of Anatomy.* (**1,** 1949)

Knoefel, Peter K., M.D., Univ. of Louisville, 101 W. Chestnut St., Louisville, Ky. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1934)

Knowlton, Frank P., M.D. Seracuse Univ. College of Medicine, Syracuse, N. Y. *Prof. Emeritus of Physiology.* (**1R,** 1911)

Knowlton, G. Clinton, Ph.D. Emory Univ., Room 101, Physiology Bldg., Emory University, Ga. *Assoc. Prof.* (**1,** 1938)

Knox, W. Eugene, M.D. Tufts College Med. School, 136 Harrison Ave., Boston 11, Mass. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Knudson, Arthur, Ph.D. Albany Med. College, New Scotland Ave., Albany, N. Y. *Prof. and Chairman, Biochemistry.* (**2,** 1919; **5,** 1936)

Knutti, Ralph Eddy, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Extramural Programs, Natl. Inst. for Arthritis and Metabolic Diseases.* (**4,** 1933)

Kobayashi, Yoshito, M.D. Univ. of Tokyo, Bunkyo-ku, Tokyo, Japan. *Prof. of Pharmacology.* (**3,** 1953)

Kober, Philip A., B.S. Sherman Labs., Detroit, Mich. *Dir. of Research.* (**2R,** 1912)

Kobrak, Heinrich G., Ph.D. Univ. of Chicago, Chicago, Ill. *Assoc. Prof. of Surgery.* (**1,** 1948)

Kochakian, Charles D., Ph.D. Oklahoma Med. Research Fndn., 825 N. E. 13th St., Oklahoma City. *Coordinator of Research; Head, Biochemistry and Endocrinology Sec.; Prof. of Biochemistry, Okla. Med. School.* (**1,** 1942; **2,** 1948)

Kocher, Rudolph Alfred, M.D. Box 936, Carmel, Calif. (**2R,** 1915)

Kocholaty, Walter F., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Chief, Microbiology Sec.* (**2,** 1950)

Koehler, Alfred E., M.D., Ph.D. 317 W. Pueblo St., Santa Barbara, Calif. *Physician, Sansum Clinic, Santa Barbara Cottage Hospital.* (**2,** 1924)

Koehn, Carl J., Ph.D. QM Food and Container Inst., Nutrition Lab., 1819 W. Pershing Rd., Chicago 9, Ill. *Medical Ser. Liaison Off.* (**5,** 1949)

Koehne, Martha, Ph.D. 683 Glenmont Ave., Columbus 14, Ohio. *Nutritionist, Ohio State Dept. of Health.* (**5R,** 1933)

Koelle, George B., Ph.D., M.D. Univ. of Pennsylvania, Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Prof. of Pharmacology.* (**3,** 1947)

Koenig, Virgil L., Ph.D. 2515 35th St., Los Alamos, N. M. *Staff Member, Los Alamos Scientific Lab., Univ. of Calif.* (**2,** 1953)

Koepf, George F., M.D. 537 Delaware Ave., Buffalo 2, N. Y. *Assoc. in Physiology, Univ. of Buffalo.* (**1,** 1942)

Koerber, Walter L., Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Asst. Dept. Head.* (**6,** 1943)

Kohlstaedt, Kenneth G., M.D. Lilly Lab. for Clinical Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Director.* (**1,** 1947)

Kohn, Henry I., Ph.D., M.D. Univ. of California Hospital, Radiology Dept., San Francisco 22. *Clinical Prof. of Exptl. Radiology.* (**1,** 1940)

Koletsky, Simon, M.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Pathology.* (**4,** 1951)

Kolmer, John A., M.D., D.P.H. 2101 Pine St., Philadelphia, Pa. *Prof. of Medicine, Temple Univ.; Dir., Research Inst. of Cutaneous Medicine.* (**6R,** 1913)

Komarov, Simon A., M.D., Ph.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Dir. of Dept. of Biochemistry.* (**1,** 1933)

Kopeloff, Nicholas, Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Bacteriologist, New York State Psychiatric Inst. and Hospital.* (**6,** 1937)

Koppanyi, Theodore, Ph.D. Georgetown Univ., Washington, D. C. *Prof. of Pharmacology.* (**1,** 1924; **3,** 1935)

Koprowski, Hilary, M.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Asst. Dir., Viral and Rickettsial Research.* (**6,** 1946)

Korkes, Seymour, M.D. Duke Univ. School of Medicine, Dept. of Biochemistry, Durham, N. C. *Assoc. Prof. of Biochemistry.* (**2,** 1952)

Kornberg, Arthur, M.D. Washington Univ., School of Medicine, St. Louis 10, Mo. *Prof. and Head, Dept. of Microbiology.* (**2,** 1949)

Korr, Irwin M., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Prof. of Physiology.* (**1,** 1939)

Koshland, Marian Elliott, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Assoc. Bacteriologist.* (**6,** 1950)

Kosman, A. J., Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof.* (**1,** 1949)

Koster, Rudolf, Ph.D. Wellcome Research Labs., Tuckahoe, N. Y. (**3,** 1949)

Kottke, Frederic J., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head, Dept. of Physical Medicine and Rehabilitation.* (**1,** 1947)

Kozelka, Frank L., Ph.D. Univ. of Wisconsin, Dept. of Pharmacology and Toxicology, Madison 6. *Prof. of Clin. Pathology.* (**3,** 1939)

Kozloff, Lloyd M., Ph.D. Univ. of Chicago, Dept.

of Biochemistry, Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1951)

Kraatz, Charles P., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia, Pa. *Assoc. Prof. of Pharmacology.* (**3,** 1950)

Krahl, Maurice E., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Physiology.* (**2,** 1939; **3,** 1949)

Krakower, Cecil Alexander, M.D. Univ. of Illinois College of Medicine, 1853 West Polk St., Chicago. *Prof. of Pathology.* (**4,** 1945)

Kramer, Benjamin, A.M., M.D. 60 Plaza St., Brooklyn 17, N. Y. *Pediatrician-in-Chief, Brooklyn Jewish Hospital; Prof. of Clin. Pediatrics, Long Island College Med. School.* (**1,** 1915; **2,** 1914)

Kramer, Martha, Ph.D. Kansas State College, Manhattan. *Asst. Dean, School of Home Economics.* (**5,** 1933)

Kramer, S. D., M.D., Ph.D. 92 Washington Sq. East, Salem, Mass. *Virologist.* (**6,** 1944)

Krampitz, Lester O., Ph.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland 6, Ohio. *Prof. of Microbiology.* (**2,** 1946; **6,** 1949)

Krantz, John C., Jr., Ph.D. Univ. of Maryland Med. School, Baltimore. *Prof. of Pharmacology.* (**3,** 1937)

Kratzer, F. H., Ph.D. Univ. of California, Div. of Poultry Husbandry, Davis. *Assoc. Prof.* (**5,** 1949)

Krauss, William E., Ph.D. Ohio Agricultural Exper. Station, Wooster. *Assoc. Dir.* (**2,** 1932; **5,** 1933)

Kraybill, Henry R., Ph.D. 5720 Woodlawn Ave., Chicago 37, Ill. *Professorial Lecturer, Dept. of Biochemistry, Univ. of Chicago; Dir. of Research and Education, American Meat Inst. Foundation.* (**2,** 1942; **5,** 1951)

Krayer, Otto, M.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1938)

Krebs, Edwin G., M.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Assoc. Prof.* (**2,** 1952)

Kreezer, George L., Ph.D. Washington Univ., St. Louis 10, Mo. *Assoc. Prof. of Psychology.* (**1,** 1948)

Krehl, Willard A., Ph.D. Yale Univ., 333 Cedar St., New Haven. Conn. *Assoc. Prof. of Nutrition.* (**2,** 1947; **5,** 1949)

Kritchevsky, Theodore H., Ph.D. 171 Fort Lee Rd., Leonia, N. J. *Sloan-Kettering Inst. for Cancer Research.* (**2,** 1952)

Krop, Stephen, Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Pharmacologist.* (**1,** 1949; **3,** 1944)

Krueger, Albert Paul, M.D. Univ. of California, Berkeley. *Prof. and Chairman, Dept. of Bacteriology.* (**4,** 1930; **6,** 1937)

Krueger, Hugo, Ph.D. Oregon State College, Dept. of Zoology, Corvallis. *Prof. of Physiology.* (**1,** 1931; **3,** 1935)

Krumbhaar, Edward B., M.D., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. Emeritus of Pathology.* (**1R,** 1914; **4,** prior to 1920)

Kruse, Harry Dayton, M.D., Sc.D. New York Academy of Medicine, 2 E. 103rd St., New York City 29. *Exec. Secy., Committee on Public Health Relations.* (**2,** 1933; **5,** 1950)

Kruse, Theophile K., Ph.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1919; **3,** 1920)

Kubicek, William G., Ph.D. Univ. of Minnesota Hospitals, Div. of Physical Medicine, Minneapolis. *Professor.* (**1,** 1947)

Kubie, Lawrence S., M.D. 7½ E. 81st. St., New York City 28. *Clin. Prof. of Psychiatry and Mental Hygiene, Yale Univ. School of Medicine; Faculty, N. Y. Psychoanalytic Inst.* (**4,** 1928)

Kuffler, Stephen W., M.D. Johns Hopkins Med. School, Wilmer Inst., Baltimore 5, Md. *Assoc. Prof. of Physiological Optics.* (**1,** 1949)

Kuhn, Harry A., M.S. 3915 Fulton St. N. W., Washington, D. C. *Consultant.* (**3,** 1927)

Kuiken, Kenneth A., Ph.D. Buckeye Cotton Oil Co., Development Lab., Ivorydale, Cincinnati 17, Ohio. *Head, Protein Research Dept.* (**2,** 1950)

Kuizenga, Marvin H., Ph.D. Upjohn Company, Kalamazoo, Mich. *Asst. Dir. Research.* (**2,** 1947)

Kun, Ernest, M.D. 1702 Univ. Ave., Madison, Wis. *Spec. Research Fellow, USPHS.* (**3,** 1949)

Kunde, Margarete M., Ph.D., M.D. 30 N. Michigan Ave., Suite 1308, Chicago, Ill. (**1,** 1924)

Kunitz, Moses, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2R,** 1947)

Kunkel, Henry G., M.D. Rockefeller Inst., 66 and York Ave., New York City. *Member.* (**2,** 1953)

Kupperman, Herbert S., M.D., Ph.D. New York Univ. College of Medicine, Dept. of Therapeutics, 477 First Ave., New York City. *Adjunct Asst. Prof.* (**3,** 1950)

Kurtz, Alton C., Ph.D. Univ. of Oklahoma Med. School, Dept. of Biochemistry, Oklahoma City. *Professor.* (**2,** 1942)

Kuyper, Adrian C., Ph.D. Wayne Univ. College of Medicine, Detroit 36, Mich. *Asst. Prof. of Physiological Chemistry.* (**2,** 1946)

Kydd, D. M., M.D. State Univ. of New York Med. Center at New York, Dept. of Internal Medicine, Brooklyn 3. *Assoc. Prof. of Medicine.* (**5,** 1934)

Kyes, Preston, Sc.D., M.D. North Jay, Maine. *Prof. Emeritus.* (**6R,** 1918)

Kyker, Granvil C., Ph.D. Oak Ridge Inst. of Nuclear Studies, Med. Div., P.O. Box 117, Oak Ridge, Tenn. *Principal Scientist.* (**2,** 1947)

LaBelle, Annette, B.A., 271 Alta Vista Dr., Tuckahoe 7, N. Y. (**1,** 1948)

Lackey, Robert W., Ph.D. Southwestern Med. College, Dept. of Physiology and Pharmacology, Dallas 4, Texas. *Prof. of Physiology.* **(1,** 1947)

Lackman, David B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Chief, Serology-Pathology Section.* **(6,** 1952)

Lacorte, Jose G., M.D. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, S. A. *Chief, Virus Section; Prof., Univ. of Brazil.* **(6,** 1946)

Lacy, G. R., M.D. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. and Chairman of Dept. of Bacteriology and Immunology.* **(4,**1927)

Lalich, Joseph J., M.D. Univ. of Wisconsin, 426 N. Charter St., Madison 6. *Assoc. Prof. of Pathology.* **(4,** 1946)

Lamb, Alvin R., Ph.D. Hawaiian Sugar Planters' Assoc., Exper. Station, Honolulu. *Research Assoc.* **(2,** 1923; **5,** 1934)

Lambert, Edward H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Physiology.* **(1,** 1945)

Lambert, Robert A., M.D. Greensboro, Ala. **(4,** 1922)

Lambertsen, Christian J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Pharmacology.* **(3,** 1948)

Lambooy, John P., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Physiology, Rochester 20, N. Y. *Asst. Prof. of Physiology.* **(2,** 1953)

Lampen, J. Oliver, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Dir., Div. of Biochemical Research.* **(2,** 1947)

Lamport, Harold, M. D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Physiology.* **(1,** 1943)

Lamson, Baldwin G., Univ. of California, School of Medicine, Los Angeles 24. *Asst. Prof. of Pathology.***(4,** 1952)

Lamson, Paul Dudley, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pharmacology.* **(1,** 1921; **3R,** 1915)

Lancefield, Rebecca C., Ph.D. 66th St. and York Ave., New York City 21. *Assoc. Member, Rockefeller Inst. for Med. Research.* **(6,** 1933)

Landis, Carney, Ph.D. Columbia Univ., Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Psychologist and Prof. of Psychology.* **(1,** 1939)

Landis, Eugene Markley, Ph.D., M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston, Mass. *George Higginson Prof. of Physiology.* **(1,** 1928)

Landowne, Milton, M.D. 6101 Stewart Ave., Baltimore 9, Md. *Assoc. Chief, Cardiovascular Disease and Gerontology Section, Baltimore City Hospital.* **(1,** 1947)

Lands, Alonzo, M., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head, Pharmacology Section.* **(1,** 1942; **3,** 1947)

Landy, Maurice, Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Bacterial Physiology.* **(6,** 1952)

Lane, Charles E., Ph.D. Univ. of Miami, Marine Lab., Coral Gables, Fla. *Research Assoc.; Assoc. Prof. of Marine Biology.* **(1,** 1952)

Lange, Carl, M.D. 371 Morris St., Albany, N. Y. *Assoc. Bacteriologist, Divs. of Labs. and Public Health, N. Y. State Dept. of Health.* **(6,** 1938)

Langemann, Heinrich, M.D. Pharmakologisches Inst., Univ. of Zurich, Zurich, Switzerland. *Assistant.* **(3,** 1953)

Langham, Wright H., Ph.D. Univ. of California, Los Alamos Scientific Lab., Health Div., P. O Box 1663, Los Alamos, N.M. *Dir. of Biological and Med. Research.* **(2,** 1951)

Langley, L. L., Ph.D. Med. College of Alabama, Birmingham 5. *Assoc. Prof. of Physiology.* **(1,** 1951)

Langley, Wilson D., Ph.D. Univ. of Buffalo Med. School, 3435 Main St., Capen Hall, Buffalo, N. Y. *Prof. and Head of Dept. of Biochemistry.* **(2,** 1937)

Langworthy, Orthello R., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psychiatry, Johns Hopkins Univ.* **(1,** 1928)

Lanni, Frank, Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. *Asst. Prof. of Bacteriology.* **(6,** 1949)

Lapicque, L. The Sorbonne, Lab. of Physiology, Paris, France. **(1H,** 1946)

Laqueur, Gert Ludwig, Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Pathologist.* **(4,** 1952)

Lardy, Henry A., Ph.D. Inst. for Enzyme Research, Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* **(2,** 1946)

Larner, Joseph, M.D., Ph.D. Univ. of Illinois, Noyes Lab. of Chemistry, Urbana. *Asst. Prof.* **(2,** 1953)

Larrabee, Martin G., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. *Assoc. Prof.* **(1,** 1940)

Larsen, Eleanor M., Ph.D. Univ. of Wisconsin, Dept. of Physiology, S. M. I., Madison 6. *Instr. in Physiology.* **(1,** 1949)

Larson, Carl L., M.D. U. S. Public Health Service, Rocky Mountain Lab., Microbiological Inst., Hamilton, Mont. *Director.* **(6,** 1948)

Larson, Daniel L., M.D. College of Physicians and Surgeons, 620 W. 168th St., New York City 32. *Assoc. in Medicine.* **(6,** 1953)

Larson, Edward, Ph.D. Med. Research Unit of Veterans Hospital, Univ. of Miami, Coral Gables, Fla. *Prof. of Physiology and Pharmacology.* **(1,** 1929; **3,** 1937)

Larson, Hardy W., Ph.D. Metropolitan Life Insurance Co., Biochemical Lab., 1 Madison Ave., New York City. *Research Chemist.* (**2,** 1937)

Larson, Paul S., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Pharmacology.* (**1,** 1939; **3,** 1947)

Lasagna, Louis, M.D. 74 Sias Lane, Milton, Mass. *Research Assoc., Mass. Gen. Hospital, Boston.* (**3,** 1953)

Lashley, K. S., Ph.D. Yerkes Labs., Orange Park, Fla. *Research Prof. of Neuropsychology, Harvard Univ.; Dir., Yerkes Labs. of Primate Biology, Inc.* (**1,** 1923)

Laskowski, M., Ph.D. Marquette Univ. Med. School, Milwaukee 3, Wis. *Prof. of Biochemistry.* (**2,** 1944)

Last, Jules H., Ph.D., M.D. P.O. Box 381, Highland Park, Ill. (**3,** 1948)

Lauffer, Max A., Jr., Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Research Prof. and Head of Dept. of Biophysics.* (**2,** 1946)

Laug, E. P., Ph.D. Food and Drug Admin., Div. of Pharmacology, 12th and C Sts. S. W., Washington 25, D. C. *Sr. Pharmacologist.* (**2,** 1938; **3,** 1947)

Laurens, Henry D., Ph.D., M.D. Box 157, Flatrock, N. C. (**1R,** 1913)

Lauson, Henry D., Ph.D., M.D. Cornell Univ. Med. College, Dept. of Physiology, 1300 York Ave., New York City 21. *Assoc. Prof.* (**1,** 1946)

Lavik, Paul S., Ph.D. Western Reserve Univ., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry; Asst. Prof. of Radiology.* (**2,** 1952)

Lavine, T. F., Ph.D. Lankenau Hospital Research Inst., Fox Chase, Philadelphia, Pa. *Sr. Member.* (**2,** 1938)

Law, Lloyd William, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head, Leukemia Studies Unit.* (**4,** 1952)

Lawrence, H. Sherwood, M.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (**6,** 1951)

Lawrence, John H., M.D. Univ. of California, Donner Lab., Berkeley 4. *Dir.; Prof. of Exper. Medicine.* (**1,** 1952)

Lawrence, W. Sherwood, M.D. 906 Hazel St., Gridley, Calif. *Physician and Surgeon.* (**3,** 1944)

Lawson, Hampden, M.D., Ph.D. Univ. of Louisville, Louisville, Ky. *Prof. of Physiology.* (**1,** 1933)

Lawton, Alfred H., M.D., Ph.D. Aero Meadows, Rt. 3, Herndon, Va. *Med. Research Advisor, USAF, Washington, D. C.* (**1,** 1949; **3,** 1948)

Lawton, Richard W., M.D. Cornell Univ. Med. College, Dept. of Physiology, 1300 York Ave., New York City 21. *Asst. Prof.* (**1,** 1951)

Leake, Chauncey D., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. and Admin. of Research.* (**1,** 1923; **3,** 1924)

Leathem, James H., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**1,** 1945)

Lederer, Ludwig George, Ph.D., M.D. Natl. Airport, Room 70, Washington, D. C. *Med. Dir.* (**1,** 1940)

Lee, Douglas H. K., M.D. Johns Hopkins Univ., I. Bowman School of Geography, Baltimore 18, Md. *Prof. of Physiological Climatology.* (**1,** 1949)

Lee, Henry M., Ph.D. Eli Lilly and Co., 740 South Alabama, Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1952)

Lee, Kwang Soo, Ph.D., M.D. Jefferson Med. College, 1025 Walnut, Philadelphia 3, Pa. *Asst. Prof. of Pharmacology.* (**3,** 1953)

Lee, Milton O., Ph.D. 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec. and Managing Editor, American Physiological Society; Federation Sec.* (**1,** 1927; **5,** 1933)

Lee, Richard E., Ph.D., M.D. New York Hospital, Dept. of Medicine, New York City 21. *Asst. Prof. of Medicine, Cornell Univ. College of Medicine.* (**1,** 1950)

Leese, Chester E., Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Physiology.* (**1,** 1934)

LeFevre, Paul G., Ph.D. U. S. Atomic Energy Commission, Washington 25, D. C. *Asst. to Chief of Research, Med. Branch.* (**1,** 1950)

Lehman, Arnold J., Ph.D., M.D. Food and Drug Admin., Washington 25, D. C. *Chief, Div. of Pharmacology.* (**3,** 1937)

Lehman, Robert A., Ph.D. Campbell Pharmaceutical Co., 254 W. 31st St., New York City 1. *Dir. of Research.* (**3,** 1942)

Lehninger, Albert L., Ph.D. Johns Hopkins Univ., School of Medicine, Baltimore 5, Md. *Delamar Prof. of Physiological Chemistry; Dir. of Dept.* (**2,** 1946)

Lehr, David, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. at 105th St., New York City 29. *Assoc. Prof. in Pharmacology and Medicine.* (**3,** 1947)

Leichsenring, Jane M., Ph.D. Univ. of Minnesota, Univ. Farm, St. Paul. *Prof. of Nutrition.* (**5,** 1948)

Leimdorfer, Alfred, M.D. Stritch School of Medicine of Loyola Univ., 706 S. Wolcott Ave., Chicago 12, Ill. *Research Prof. of Pharmacology.* (**1,** 1947)

Lein, Allen, Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, Chicago 11, Ill. *Assoc. Prof.* (**1,** 1946)

Lenhart, Carl H., M.D. Lakeside Hospital, 2065 Adelbert Rd., Cleveland, Ohio. *Oliver H. Payne Prof. of Surgery, Western Reserve Univ.* (**1R,** 1921)

Lennette, Edwin H., Ph.D., M.D. California State

Dept. of Public Health, 1392 University Ave., Berkeley 4. *Chief, Viral and Rickettsial Disease Lab.* (**4,** 1941; **6,** 1947)

Leonard, Clifford Shattuck, Ph.D. 286 Whitfield St., Guilford, Conn. *Technical Assoc., Chemical-Biological Coordination Center, Natl. Research Council.* (**3,** 1927)

Leonards, Jack Ralph, Ph.D. Western Reserve Univ. Med. School, Cleveland, Ohio. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Le Page, G. A., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Prof. of Oncology.* (**2,** 1949)

Lepkovsky, Samuel, Ph.D. Univ. of California, Poultry Div., Berkeley 4. *Prof. of Poultry Husbandry.* (**2,** 1933; **5,** 1933)

Lerner, Aaron B., M.D., Ph.D. Univ. of Oregon Med. School, Dept. of Dermatology, Portland. *Assoc. Prof.* (**2,** 1952)

L'Esperance, Elise L., M.D. 535 Pelham Manor Rd., Pelham Manor, N. Y. (**6,** 1920)

Lessler, Milton A., Ph.D. Ohio State Univ. College of Medicine, Columbus 10. *Asst. Prof. of Physiology.* (**1,** 1952)

Leverton, Ruth M., Ph.D. Univ. of Nebraska, Dept. of Home Economics, Lincoln. *Prof.; Dir. of Human Nutrition Research.* (**5,** 1942)

Levey, Stanley, Ph.D. Univ. Hospitals of Cleveland, 2065 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Biochemistry, Western Reserve Univ. College of Medicine in the Dept. of Surgery, Lakeside Hospital.* (**2,** 1951)

Levin, Louis, Ph.D. Natl. Science Fndn., 1520 H St., N. W., Washington 25, D. C. *Program Dir., Regulatory Biology.* (**2,** 1939)

Levine, Harold, Ph.D. 941 E. Sylvan Ave., Milwaukee 11, Wis. *Biochemist, Am. Biosynthetics Corp.* (**2,** 1933; **5,** 1933).

Levine, Philip, M.D. Ortho Research Foundation, Raritan, N. J. *Dir. of Serology.* (**6,** 1925)

Levine, Rachmiel, M.D. Michael Reese Hospital, Chicago, Ill. *Dir., Dept. of Metabolic and Endocrine Research; Chairman, Dept. of Medicine.* (**1,** 1942)

Levine, Samuel Z., M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Pediatrics, Cornell Univ. Med. College; Pediatrician-in-Chief, New York Hospital.* (**5,** 1933)

Levine, Victor Emanuel, Ph.D., M.D. Creighton Univ. School of Medicine, Omaha, Nebr. *Prof. of Biological Chemistry and Nutrition.* (**2,** 1936)

Levinson, Samuel A., Ph.D., M.D. Univ. of Illinois College of Medicine, 808 S. Wood St., Chicago. *Prof. of Pathology; Dir. of Labs., Research and Educational Hospital.* (**4,** 1938)

Levison, Louis A., M.D. 421 Michigan St., Toledo, Ohio. *Physician to Toledo and St. Vincent Hospitals.* (**6,** 1916)

Levitt, Marvin F., M.D. The Mount Sinai Hospital, 5th Ave. and 100th St., New York City 29. *Research Assoc., Dept. of Medicine.* (**1,** 1953)

Levy, Barnet M., D.D.S. Columbia Univ. School of Dental and Oral Surgery, 630 W. 168th St., New York City 32. *Prof. of Dentistry; Dir. of Research and Post-Grad. Studies.* (**4,** 1951)

Levy, Matthew Nathan, M.D. Union Univ. Albany Med. College, Dept. of Physiology, Albany 3, N. Y. *Asst. Prof.* (**1,** 1951)

Levy, Milton, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Prof. of Chemistry.* (**2,** 1933)

Levy, Robert L., M.D. 730 Park Ave., New York City. *Prof. of Clin. Medicine, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1915)

Lewis, Alvin Edward, M.D. Mt. Zion Hospital, 1600 Divisadero St., San Francisco 15, Calif. *Pathologist.* (**1,** 1953)

Lewis, George T., Ph.D. Univ. of Miami School of Medicine, Dept. of Biochemistry, Coral Gables 46, *Professor and Chairman of Dept.* (**2,** 1949)

Lewis, Gladys Kinsman, Ph.D. 444 Fairfax, Denver 20, Colo. *Instr., Preventive Medicine and Public Health, Univ. of Colo.* (**5,** 1944)

Lewis, Howard Bishop, Ph.D. Univ. of Michigan Med. School, Ann Arbor. *John Jacob Abel Univ. Prof. of Biological Chemistry.* (**1,** 1925; **2,** 1913; **5,** 1933)

Lewis, James C., Ph.D. U. S. Dept of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Sec. Leader.* (**2,** 1946)

Lewis, Jessica H., M.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Research Assoc.* (**1,** 1949)

Lewis, John R., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Asst. Head of Sec. of Coordination.* (**3,** 1950)

Lewis, Julian Herman, M.D. 4750 Champlain Ave., Chicago, Ill. *Assoc. Prof. of Pathology, Univ. of Chicago; Member, Otho S. A. Sprague Memorial Inst.* (**4,** 1924)

Lewis, Lena A., Ph.D. Cleveland Clinic, Euclid Ave. and E. 93rd St., Cleveland 6, Ohio. *Research Staff Member, Cleveland Clinic Fndn.* (**1,** 1946)

Lewis, Robert C., Ph.D. Univ. of Colorado, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2,** 1931; **5R,** 1933)

Lewis, Warren H., M.D. Wistar Inst. of Anatomy and Biology, Philadelphia, Pa. *Member.* (**1R,** 1919)

Ley, Herbert Leonard, Jr., M.D. 2304 Colston Dr., Silver Spring, Md. (**6,** 1949)

Li, Choh Hao, Ph.D. Univ. of California, 4596 Life Sciences Bldg., Berkeley. *Prof. of Biochemistry and Exper. Endocrinology.* (**2,** 1944)

Li, Tsung Han, M.D. New England Med. Center,

Boston 11, Mass. *Assoc., Tufts Med. School.* (**3,** 1951)

Libby, Raymond L., Ph.D. Veterans Admin., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Assoc. Prof. of Radio Biology, Univ. of California Med. School; Chief of Isotope Section, Veterans Hospital, Los Angeles.* (**6,** 1938)

Liberson, W. T., M.D. Inst. of Living, Hartford, Conn. *Neurophysiologist.* (**1,** 1948)

Libet, Benjamin, Ph.D. Univ. of California Med. Center, 104 Med. School, San Francisco. *Assoc. Prof. of Physiology, Med. School.* (**1,** 1942)

Lichstein, Herman C., Sc.D. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis 14. *Assoc. Prof.* (**2,** 1952)

Licklider, J. C. R., Ph.D. Massachusetts Inst. of Technology, Acoustics Lab., Cambridge. (**1,** 1938)

Liddell, Howard S., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Psychology.* (**1,** 1925)

Lieb, Charles C., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Hosack Prof. of Pharmacology.* (**1R,** 1936; **3R,** 1915)

Lieberman, Arnold L., M.D., Ph.D. Veterans Administration Hospital, Northport, L. I., N. Y. *Chief, Med. Service.* (**1,** 1934)

Lieberman, Seymour, Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry* (**2,** 1948)

Lief, Philip A., M.D. 1777 Grand Concourse, New York City 53. *Anesthesiologist.* (**3,** 1952)

Liener, Irvin E., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, St. Paul 8. *Assoc. Prof.* (**2,** 1953)

Lifson, Nathan, M.D., Ph.D. 2602 W. 54th St., Minneapolis, Minn. *Prof. of Physiology, Univ. of Minnesota Med. School.* (**1,** 1944)

Lightbody, Howard D., Ph.D. R. F. D. No. 3, Box 17-B, Mena, Ark. *U. S. Civil Service, Retired.* (**2,** 1936)

Ligon, Edgar William, Jr., Ph.D. Production and Marketing Admin., Insecticide Div., Agricultural Research Center, Beltsville, Md. *Pharmacologist.* (**3,** 1948)

Lilienthal, Joseph L., Jr., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Prof. of Environmental Medicine; Assoc. Prof. of Medicine.* (**1,** 1945)

Liljestrand, Göran, M.D. Caroline Inst., Stockholm, Sweden. *Prof. of Pharmacology.* (**1H,** 1950)

Lillie, R. D., M.D. Pathology and Pharmacology Lab., Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda, Md. *Chief; Med. Dir., USPHS.* (**4,** 1941)

Lilly, John C., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief of Sec. of Biophysics, Lab. of Neurophysiology; Assoc. Prof. of Med. Physics and Exper. Neurology, Univ. of Pennsylvania.* (**1,** 1950)

Lim, Robert Kho-Seng, M.B., Ph.D., D.Sc. Miles-Ames Research Lab., Elkhart, Ind. *Head of Physiology and Pharmacology Dept.* (**1,** 1923; **3,** 1952)

Lindeman, V. F., Ph.D. Syracuse Univ., 16 Lyman Hall, Syracuse, N. Y. *Prof. of Zoology.* (**1,** 1949)

Lindsay, Stuart, M.D. Univ. of California Med. School, Univ. Hospital, San Francisco 22. *Assoc. Prof. and Pathologist.* (**4,** 1949)

Lindsley, Donald B., Ph.D. Univ. of California Med. School, Los Angeles 24. *Prof. of Psychology.* (**1,** 1937)

Linegar, Charles R., Ph.D. E. R. Squibb and Sons, Div. of Mathieson Chemical Corp., New Brunswick, N. J. *Dir., Toxicology Research Div.* (**3,** (1938)

Lineweaver, Hans, Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Head of Poultry Products Div.* (**2,** 1941)

Ling, Gilbert N., Ph.D. Univ. of Illinois, Neuropsychiatric Lab., 912 S. Wood St., Chicago 12. *Asst. Prof.* (**1,** 1951)

Link, Karl Paul, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1931)

Lintz, William, M.D. 36 Plaza St., Brooklyn, N. Y. *Late Prof. of Immunology and Bacteriology and Clin. Prof. of Medicine, Long Island College of Medicine.* (**6R,** 1920)

Lipmann, Fritz, M.D., Ph.D. Massachusetts General Hospital, Biochemical Research Lab., Boston 14. *Head; Prof. of Biological Chemistry, Harvard Med. School.* (**2,** 1941)

Lippincott, Stuart W., M.D. Univ. of Washington School of Medicine, Seattle. *Chairman, Dept. of Pathology.* (**4,** 1947)

Lippman, Richard W., M.D. 414 N. Camden Dr., Beverly Hills, Calif. (**1,** 1950)

Lipton, Morris A., Ph.D., M.D. Univ. of Chicago Clinics, 950 E. 59th St., Chicago 37, Ill. *Asst. Prof. of Medicine.* (**2,** 1946)

Lisco, Hermann, M.D. Argonne Natl. Lab., Chicago 80, Ill. *Dir., Med. Div.; Asst. Prof. of Pathology, Univ. of Chicago.* (**4,** 1947)

Litchfield, John T., Jr., M.D. American Cyanamid Co., 1937 W. Main St., Stamford, Conn. *Pharmacologist.* (**3,** 1940)

Little, James Maxwell, Ph.D. Bowman Gray School of Medicine of Wake Forest College, Winston-Salem, N. C. *Prof. of Pharmacology; Assoc. Prof. of Physiology.* (**1,** 1942; **3,** 1947)

Little, Robert C., M.D. Univ. of Tennessee, Dept. of Medicine, Memphis. *Assoc. Prof.* (**1,** 1950)

Liu, Ch'ien, M.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Research Assoc.* (**6,** 1953)

Livingston, Alfred E., Ph.D. Temple Univ. School of Pharmacy, Philadelphia 40, Pa. *Prof. and Head of Dept.* (**1,** 1917; **3R,** 1920)

Livingston, Robert B., M.D. Univ. of California, School of Medicine, Los Angeles 24. *Assoc. Prof. of Anatomy and Physiology.* (**1,** 1949)

Lloyd, David P. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1,** 1939)

Locke, Arthur P., Ph.D. 9 Redcliffe Ave., Apt. 1A, Highland Park, N. J. *Research Dir., Zonite Products Corp., New Brunswick, N. J.* (**6,** 1926)

Lodholz, Edward, M.D. Univ. of Pennsylvania, Med. Labs., Philadelphia. *Prof. Emeritus of Physiology, Grad. School of Medicine.* (**1R,** 1913)

Loeb, Leo, M.D. Washington Univ. Med. School, St. Louis, Mo. *Prof. Emeritus of Pathology.* (**1R,** 1907; **4,** 1913)

Loebel, Robert O., M.D. 205 East 78th St., New York City. (**1R,** 1928)

Loefer, John B., Ph.D. Office of Naval Research, 1030 E. Green St., Pasadena 1, Calif. *Coordinator for Biological Sciences.* (**1,** 1949)

Loew, Earl R., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. and Head of Dept. of Physiology.* (**1,** 1940; **3,** 1946)

Loewe, Leo, M.D. 940 Park Ave., New York City 28. (**3,** 1951)

Loewe, W. S., M.D. Univ. of Utah School of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Research Prof.* (**3,** 1936)

Loewi, Otto, M.D. 155 E. 93rd St., New York City 28. *Research Prof. of Pharmacology, New York Univ. College of Medicine.* (**3H,** 1941)

Logan, Milan A., Ph.D. Univ. of Cincinnati College of Medicine, Eden and Bethesda, Cincinnati 19, Ohio. *Prof. of Biological Chemistry and Head of Dept.* (**2,** 1936)

Logrippo, Gerald A., M.D. Henry Ford Hospital, Dept. of Bacteriology and Virology, 2799 W. Grand Blvd., Detroit 2, Mich. *Sr. Assoc. in Charge.* (**6,** 1953)

Long, C. N. H., D.Sc., M.D. Yale Univ. Dept. of Physiology, 333 Cedar St., New Haven 11, Conn. *Sterling Prof. of Physiology.* (**1,** 1935; **2,** 1927)

Long, Esmond R., M.D., Ph.D. 7th and Lombard Sts., Philadelphia, Pa. *Dir., Henry Phipps Inst.; Prof. of Pathology, Univ. of Pennsylvania.* (**4,** 1930)

Longenecker, Herbert Eugene, Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Dean of Grad. School, and Research in Natural Sciences.* (**2,** 1940; **5,** 1945)

Longwell, Bernard B., Ph.D. The Lovelace Fndn., Ridgecrest Dr. and Gibson Ave., Albuquerque, N. M. *Head, Dept. of Biochemistry.* (**2,** 1946)

Loofbourrow, G. N., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Asst. Prof.* (**1,** 1950)

Loomis, Ted A. Ph.D., M.D. Univ. of Washington School of Medicine, Seattle. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Loomis, William F., M.D. Calhoun Drive, Greenwich, Conn. *Dir., Loomis Lab.* (**2,** 1952)

Looney, Joseph M., M.D. 17 Court St., Boston, Mass. *Chief of Labs., V. A. Regional Office; Research Prof. of Biochemistry, Boston Univ. School of Medicine.* (**2,** 1922)

Loosli, Clayton Garr, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Preventive Medicine.* (**4,** 1940)

Loosli, J. K., Ph.D. Cornell Univ., Animal Nutrition Lab., Ithaca, N. Y. *Assoc. Prof. of Animal Nutrition and Assoc. Animal Nutritionist in Exper. Station.* (**5,** 1944)

Lorber, Stanley H., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Instr. in Medicine; Research Assoc., Samuel Fels Research Inst.* (**1,** 1951)

Lorber, Victor, M.D. Univ. of Minnesota, School of Medicine, Dept. of Physiology, Minneapolis 14. *Prof.; Career Investigator, Am. Heart Assn.* (**1,** 1944)

Lorente de Nó, Rafael, M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**1,** 1937)

Lorenz, Egon, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Biophysicist.* (**4,** 1942)

Loring, H. S., Ph.D. Stanford Univ., Dept. of Chemistry, Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1938)

Lotspeich, William D., M.D. Univ. of Cincinnati College of Medicine, Dept. of Physiology, Eden and Bethesda Aves., Cincinnati 19, Ohio. *Professor.* (**1,** 1948)

Louis, Lawrence H., D.Sc. Univ. Hospital, Dept. of Internal Medicine, Ann Arbor, Mich. *Assoc. Prof. of Biological Chemistry, Univ. of Michigan.* (**2,** 1949)

Loveless, Mary H., M.D. New York Hospital, 525 E. 68th St., New York City. *Assoc. Prof. of Clin. Medicine, Cornell Univ. Med. School; Physician to Out-Patients, New York Hospital.* (**6,** 1941)

Lowell, Francis C., M.D. 65 East Newton St., Boston, Mass. *Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**6,** 1942)

Lowenbach, Hans, M.D. Duke Univ. Med. School, Dept. of Psychiatry and Physiology, Durham, N. C. *Assoc. Prof.* (**1,** 1946)

Lowry, Oliver H., M.D., Ph.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Prof. and Head of Dept. of Pharmacology.* (**2,** 1942; **3,** 1950)

Lu, Frank C., M.D. Dept. of Natl. Health and Welfare, Food and Drug Div., Ottawa, Ont., Canada. *Pharmacologist.* (**3,** 1951)

Lu, Go, M.D., Ph.D. Schering Corp., Dept. of

Pharmacology, 83 Orange St., Bloomfield, N. J. *Research Pharmacologist.* (**3,** 1949)

Lubinski, Herbert, M.D. Jewish General Hospital, 3755 St. Catherine Rd., Montreal, Quebec, Canada. *Bacteriologist and Serologist.* (**6,** 1941)

Lucas, Colin C., Ph.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto, Ontario, Canada. *Professor.* (**2,** 1946)

Lucas, George H. W., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Pharmacology.* (**2,** 1925; **3,** 1928)

Luck, James Murray, Ph.D. Stanford Univ., Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1925)

Lucké, Balduin, M.D., D.P.H. 623 Rose Lane, Bryn Mawr, Pa. *Prof. of Pathology, Univ. of Pennsylvania Med. School, Philadelphia.* (**4,** 1924)

Luckey, Thomas D., Ph.D. Lobund Inst., Univ. of Notre Dame, South Bend, Ind. *Assoc. Research Prof.* (**5,** 1953)

Luckhardt, Arno Benedict, Ph.D., M.D. 5216 S. Greenwood Ave., Chicago, Ill. *The Dr. Wm. Beaumont Distinguished Service Prof. of Physiology, Univ. of Chicago.* (**1,** 1911)

Ludewig, Stephan, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Assoc. Prof. of Biochemistry.* (**2,** 1941)

Luduena, Froilan P., Ph.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (**3,** 1941)

Luecke, Richard W., Ph.D. Michigan State College, Dept. of Agricultural Chemistry, East Lansing. *Prof. (Research).* (**5,** 1950)

Luft, Ulrich C., M.D. USAF School of Aviation Medicine, Randolph Air Force Base, Tex. *Assoc. Prof.* (**1,** 1950)

Lukens, Francis D. W., M.D. Univ. of Pennsylvania, 811 Maloney Clinic, 36th and Spruce Sts., Philadelphia. *Prof. of Medicine.* (**1,** 1938)

Lund, E. J., Ph.D. 1000 Barton Blvd., Austin, Tex. *Prof. of General Physiology, Univ. of Texas.* (**1,** 1930)

Lundberg, Walter O., Ph.D. Hormel Inst., Austin, Minn. *Director; Prof. of Agricultural Biochemistry, Univ. of Minnesota.* (**2,** 1949)

Lundgren, Harold P., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Sr. Chemist.* (**2,** 1942)

Lundy, John Silas, M.D. Mayo Clinic, Rochester, Minn. *Sr. Consultant.* (**3,** 1935)

Lurie, Max B., M.D. Henry Phipps Inst., 7th and Lombard Sts., Philadelphia, Pa. *Assoc. Prof. of Exper. Pathology.* (**4,** 1934; **6,** 1930)

Lushbaugh, Clarence C., M.D., Ph.D. Los Alamos Scientific Lab., P. O. Box 1663, Los Alamos, N. Mex. *Staff Member; Pathologist, Los Alamos Hospital.* (**4,** 1950)

Lutz, Brenton R., Ph.D. Boston Univ., 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (**1,** 1925)

Luyet, Basile J., Sc.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Biology.* (**1,** 1936)

Lyman, Carl M., Ph.D. A and M College of Texas, Texas Agricultural Exper. Station, College Station. *Prof. and Head of Dept. of Biochemistry and Nutrition.* (**2,** 1940; **5,** 1952)

Lyman, Charles Peirson, Ph.D. Harvard Univ., Museum of Comparative Zoology, Cambridge. Mass. *Assoc. Curator of Mammals; Research Assoc., Dept. of Anatomy, Harvard Med. School.* (**1,** 1951)

Lyman, John F., Ph.D. Route 2, Westerville, Ohio. *Emeritus Prof. of Agricultural Biochemistry, Ohio State Univ.* (**2R,** 1920; **5R,** 1933)

Maaske, Clarence A., Ph.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. and Head, Dept. of Physiology.* (**1,** 1945)

Macallum, A. Bruce, M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Research Prof. of Biochemistry.* (**2R,** 1914)

MacCardle, Ross C., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4,** 1948)

MacCorquodale, D. W., Ph.D. Abbott Labs., North Chicago, Ill. *Head of Biochemical Research.* (**2,** 1934)

MacFadyen, Douglas A., M.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Chairman of Dept. of Biochemistry.* (**2,** 1942)

Macht, David Israel, M.D. Sinai Hospital, Baltimore, Md. *Consultant Pharmacologist; Research Pharmacologist, Sinai Hospital Labs.* (**1R,** 1916; **3,** 1915)

Macht, Martin B., Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Asst. Clin. Prof. of Medicine; Instructor in Pharmacology.* (**1,** 1948)

MacIntosh, F. C., Ph.D. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor and Chairman of Dept.* (**1,** 1950; **3,** 1950)

MacKay, Eaton M., M.D. 150 Barrington Pl., Los Angeles 49, Calif. (**1,** 1930)

MacKay, Ian F. S., Ph.D. Univ. College of the West Indies, Jamaica, British West Indies. *Prof. of Physiology.* (**1,** 1949)

Mackenzie, Cosmo G., Sc.D. Univ. of Colorado School of Medicine, Dept. of Biochemistry, 4200 E. 9th Ave., Denver 7. *Prof. and Head of Dept.* (**1,** 1946; **2,** 1946; **5,** 1942)

MacKenzie, Julia F., Sc.D. Univ. of Colo. Med. School, 4200 E. 9th Ave., Denver. *Asst. Prof. of Pediatrics.* (**2,** 1952)

MacLeod, Colin M., M.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Prof. of Bacteriology.* (**6,** 1937)

MacLeod, Florence L., Ph.D. Univ. of Tennessee, Knoxville. *Prof. of Nutrition.* (**2,** 1927; **5,** 1933)

MacLeod, Grace, Ph.D. 106 Morningside Drive, New York City 27. *Prof. Emeritus of Nutrition, Teachers College, Columbia Univ.* (**2R,** 1924; **5R,** 1933)

MacLeod, John, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Anatomy.* (**1,** 1942)

MacLeod, Robert A., Ph.D. Pacific Fisheries Exper. Station, 898 Richards St., Vancouver 2, B. C., Canada. *Sr. Biochemist.* (**2,** 1953)

MacPherson, Catherine F. C., Ph.D. 236 Brock Ave. N., Montreal West, Quebec, Canada. (**2,** 1947)

MacPhillamy, Betty B., Ph.D. 145 Greene Ave., Madison, N. J. *Bacteriologist.* (**6,** 1944)

MacVicar, Robert, Ph.D. Oklahoma A & M College, Stillwater. *Prof. and Head of Dept. of Agricultural Chemistry Research.* (**2,** 1949)

Madden, Sidney C., M.D. Univ. of California School of Medicine, Dept. of Pathology, Los Angeles 24. *Prof. and Chairman of Dept.* (**4,** 1939)

Maddock, Stephen, M.D. Boston City Hospital, Boston, Mass. *Dir. of Surgical Research Lab.; Asst. Prof. of Surgery, Tufts Med. School.* (**4,** 1931)

Maddock, William O., M.D., Ph.D. Wayne Univ. College of Medicine, Dept. of Medicine, 1512 St. Antoine, Detroit 26, Mich. *Asst. Prof. of Medicine.* (**1,** 1951)

Madsen, Louis L., Ph.D. Bureau of Animal Industry, Agric. Research Center, Beltsville, Md. *Nutritionist.* (**5,** 1940)

Magasanik, Boris, Ph.D. Harvard Med. School, Dept. of Bacteriology, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Bacteriology and Immunology.* (**2,** 1952)

Magath, Thomas B., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.; Prof. of Clin. Pathology and Parasitology, Univ. of Minnesota; Mayo Foundation.* (**1,** 1928)

Magill, Thomas P., M.D. State Univ. of New York at New York, College of Medicine, 335 Henry St., Brooklyn 2. *Prof. of Bacteriology.* (**6,** 1937)

Magladery, J. W., M.D., Ph.D., M.R.C.P. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Neurology, Johns Hopkins University.* (**1,** 1950)

Magnuson, Harold J., M.D., M.P.H. Univ. of North Carolina, Chapel Hill. *Dir. V. D. Exper. Lab.* (**4,** 1950)

Magoun, Horace W., Ph.D. Univ. of California Med. School, Los Angeles 24. *Prof. and Chairman.* (**1,** 1937)

Mahler, Henry R., Ph.D. Institute for Enzyme Research, 1702 University Ave., Madison, Wis. *Asst. Prof. of Enzyme Research, Univ. of Wis.* (**2,** 1953)

Mahon, Eleanor Conway, Ph.D. Iron River, Mich. (**4,** 1940)

Main, Rolland J., Ph.D. Eaton Labs., Inc., Eaton Ave., Norwich, N. Y. *Med. Editor and Consultant in Physiology.* (**1,** 1936)

Maison, George L., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Vice Pres. and Gen. Manager.* (**1,** 1939; **3,** 1948)

Major, Randolph T., Ph.D. Merck and Co., Inc., Rahway, N. J. *Vice Pres. and Scientific Dir.* (**2,** 1942)

Maling, Harriet M., Ph.D. George Washington Univ. School of Medicine, Dept. of Pharmacology, Washington 5, D. C. *Asst. Research Prof.* (**3,** 1953)

Malkiel, Saul. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Asst. Prof. of Medicine; Dir. of Allergy Research Lab.* (**6,** 1948)

Mallory, G. Kenneth, M.D. Mallory Inst. of Pathology, Boston City Hospital, Boston, Mass. *Pathologist-in-Chief.* (**4,** 1940)

Maloney, Arnold H., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1932)

Maloney, James V., M.D. Johns Hopkins Hospital, Dept. of Surgery, Baltimore, Md. *Asst. Resident Surgeon.* (**1,** 1951)

Maltaner, Frank, Ph.D. 388 New Scotland Ave., Albany, N. Y. (**6,** 1920)

Maluf, Noble S. R., Ph.D. Veterans Administration Hospital, Dept. of Surgery, Holcombe Blvd., Houston, Tex. *Chief of Urology.* (**1,** 1942)

Man, Evelyn B., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. in Biochemistry Lab., Dept. of Medicine.* (**2,** 1936)

Mandel, H. George, Ph.D. George Washington Univ. School of Medicine, Dept. of Pharmacology, 1335 H St., N. W., Washington 5, D. C. *Assoc. Prof. of Pharmacology.* (**2,** 1953)

Mandl, Ines, Ph.D. 166 W. 72nd St., New York City 23. *Research Assoc., Columbia Univ., College of P. & S.* (**2,** 1952)

Manery, Jeanne Forest, Ph.D. Univ. of Toronto Med. School, Toronto, Ontario, Canada. *Asst. Prof. of Biochemistry.* (**1,** 1937)

Mangun, George H., Ph.D. Warner-Chilcott Research Labs., 113 W. 18th St., New York City 11. *Dir. of Research.* (**2,** 1947)

Manire, George Philip, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Bacteriology, Chapel Hill. *Assoc. Prof.* (**6,** (1953)

Mann, Frank C., M.D. Mayo Clinic, Box 256, Rochester, Minn. *Prof. of Exper. Medicine, Mayo Foundation.* (**1,** 1916; **4R,** 1924)

Mann, Frank D., Ph.D., M.D. 102–110 2nd Ave., S.W., Rochester, Minn. *Med. Consultant.* (**1,** 1950; **4,** 1950)

Mann, George V., Sc.D., M.D. Harvard School of Public Health, 695 Huntington Ave., Boston 15, Mass. *Asst. Prof. of Nutrition; Asst. in Medicine, Peter Bent Brigham Hospital.* (**5,** 1951)

Mann, Joseph Daniel, M.D. Mayo Foundation, 102–110 Second Ave., S.W., Rochester, Minn. *Fellow in Pathology.* (**4,** 1953)

Manning, G. W., M.D., Ph.D. Victoria Hospital, London, Ontario, Canada. *Asst. Prof. of Clin. Investigation, Dept. of Medicine; Lecturer, Dept. of Physiology, Univ. of Western Ontario.* (**1,** 1944)

Manville, Ira Albert, M.D., Ph.D. 811 N. W. 19th Ave., Portland 9, Ore. (**1,** 1933)

Manwaring, Wilfred H., M.D. 364 Kingsley Ave., Palo Alto, Calif. *Prof. Emeritus of Bacteriology and Exper. Pathology, Stanford Univ.* (**4,** prior to 1920; **6,** 1917)

Marbarger, John P., Ph.D. 394 S. Kenilworth Ave., Elmhurst, Ill. *Research Dir., Aeromed. and Physical Environment Lab.; Assoc. Prof. of Physiology.* (**1,** 1949)

Marcus, Stanley, Ph.D. Univ. of Utah, Dept. of Bacteriology, Salt Lake City. *Assoc. Prof.* (**6,** 1948)

Maren, Thomas H., M.D. American Cyanamid Co., 1937 W. Main St., Stamford, Conn. *Sr. Pharmacologist.* (**3,** 1950)

Marine, David, M.D. 18 Baltimore Ave., Rehoboth, Del. (**1R,** 1910; **4,** 1913)

Mark, Lester C., M.D. 1648 Vincent Court, Wantagh, L. I., N. Y. *Assoc. in Anesthesiology, Columbia Presbyterian Med. Center.* (**3,** 1950)

Markee, Joseph E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Anatomy.* (**1,** 1945)

Markowitz, J., M.D., Ph.D. Univ. of Toronto School of Medicine, Toronto, Ontario, Canada. *Assoc. Prof. of Physiology.* (**1,** 1929)

Marmont, George H., Ph.D. 133 N. Mansfield Ave., Los Angeles 36, Calif. (**1,** 1941)

Marmorston, Jessie. Inst. for Med. Research, 4751 Fountain Ave., Los Angeles, Calif. *Asst. Prof. of Medicine, Univ. of Southern California Staff, County and Cedars of Lebanon Hospitals.* (**6,** 1932)

Marrazzi, Amedeo S., M.D. Med. Labs., Army Chemical Center, Md. *Chief, Clinical Research Div.* (**1,** 1949; **3,** 1938)

Marsh, David F., Ph.D. McNeil Labs., 2900 N. 17th St., Philadelphia 32, Pa. *Head, Pharmacology Dept.* (**3,** 1946)

Marsh, Gordon, Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Zoology.* (**1,** 1944)

Marsh, M. Elizabeth, Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Pathology, San Francisco 22. *Jr. Research Pathologist.* (**1,** 1929; **5,** 1933)

Marshak, Alfred George, Ph.D. Marine Biological Lab., Woods Hole, Mass. (**1,** 1940)

Marshall, Eli Kennerly, Jr., Ph.D., M.D. Johns Hopkins Med. School, Baltimore, Md. *Prof. of Pharmacology and Exper. Therapeutics.* (**1,** 1915; **2,** 1913; **3,** 1915)

Marshall, Lawrence M., Ph.D. Howard Univ., School of Medicine, Dept. of Biochemistry, Washington, D. C. *Asst. Prof.* (**2,** 1952)

Marshall, Louise Hanson, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Disease, Bethesda, Md. *Physiologist.* (**1,** 1946)

Marshall, Wade H., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Neurophysiologist, Natl. Inst. of Mental Health.* (**1,** 1937)

Martin, Arthur W., Jr., Ph.D. Univ. of Washington, Johnson Hall, Seattle. *Executive Officer, Dept. of Zoology.* (**1,** 1944)

Martin, Donald S., M.D. Communicable Disease Center, Bacteriology Section, P. O. Box 185, Chamblee, Ga. *Chief.* (**6,** 1943)

Martin, Foster N., Jr., Ph.D., M.D. Tulane Univ. Med. School, P.O. Station 20, New Orleans, La. *Asst. Prof. of Pharmacology.* (**3,** 1947)

Martin, Gustav J., Sc.D. National Drug Co., Research Labs., Haines & MacCollum Sts., Philadelphia, Pa. *Research Dir.* (**2,** 1951)

Martin, Stephens J., Ph.D. St. Francis Hospital, Hartford, Conn. *Dir., Dept. of Anesthesiology.* (**1,** 1933)

Marx, Walter, Ph.D. Univ. of Southern California School of Medicine, Los Angeles 7. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

Mason, Edward C., M.D., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Physiology.* (**1,** 1935)

Mason, Eleanor Dewey, Ph.D. Women's Christian College, Dept. of Physiology and Nutrition, Madras, 6, India. *Prof.* (**1,** 1946)

Mason, Harold L., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1941)

Mason, Herman C., Ph.D. 131 N. Harvey Ave., Oak Park, Ill. *Consulting Bacteriologist and Immunologist, State of Illinois, Dept. of Public Welfare.* (**6,** 1948)

Mason, Howard S., Ph.D. Univ. of Oregon Med. School, 3181 S. W. Sam Jackson Park Rd., Portland 1. *Assoc. Prof.* (**2,** 1949)

Mason, Karl Ernest, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. and Chairman, Dept. of Anatomy.* (**5,** 1941)

Mason, Morton F., Ph.D. Parkland Hospital, Oak Lawn at Maple, Dallas 4, Tex. *Prof. of Pathological Chemistry, Dept. of Medicine, Southwestern Med. College of the Univ. of Texas.* (**2,** 1938)

Mason, Richard P., M.D. 406th Med. General Lab., APO 500, c/o Postmaster, San Francisco, Calif. *Dir. of Research.* (**6,** 1950)

Massengale, Oliver N., Ph.D. Mead Johnson and Co., Research Lab., Evansville, Ind. *Research Biochemist.* (**2,** 1937)

Masson, Georges M. C., Ph.D. Cleveland Clinic Foundation, Research Div., Cleveland, Ohio. *Staff Member.* (**1,** 1944)

Mathews, Albert P., Ph.D. Marine Biological Lab., Woods Hole, Mass. *Carnegie Prof. Emeritus of Biochemistry, Univ. of Cincinnati.* (**1R,** 1898; **2R,** 1906)

Mathies, James C., Ph.D. Henry Ford Hospital, Detroit 2, Mich. *Assoc., Edsel B. Ford Inst. for Med. Research.* (**2,** 1952)

Mathieson, Don R., M.D. Univ. of Minnesota, Mayo Clinic, Rochester. *Asst. Prof. and Consultant in Clin. Pathology.* (**6,** 1952)

Matson, Gustave A., Ph.D. Minneapolis Memorial Blood Bank, Inc., 1914 La Salle Ave., Minneapolis, Minn. *Director.* (**6,** 1946)

Matthews, Samuel A., Ph.D. Williams College, Williamstown, Mass. *Prof. of Biology.* (**1,** 1948)

Mattis, Paul A., D.Sc. Smith, Kline & French Labs., Philadelphia 1, Pa. *Head of Pharmacology Section.* (**3,** 1946)

Mattson, Fred H., Ph.D. Procter and Gamble Co., Research Div., Cincinnati 31, Ohio. *Research Chemist.* (**5,** 1953)

Maurer, Frank W., Ph.D. 301 Lake Ave., Newton Highlands 61, Mass. (**1,** 1941)

Maurer, Fred D., D.V.M., Ph.D. 114 W. 14th St., Frederick, Md. (**6,** 1950)

Maurer, Paul H., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Asst. Research Prof.* (**6,** 1953)

Mautz, Frederick R., M.D. 10515 Carnegie Ave., Cleveland 6, Ohio. (**1,** 1945)

Maver, Mary E., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Biochemist.* (**2,** 1947)

Mavor, James Watt, Ph.D. 8 Gracewood Park, Cambridge, Mass. (**1R,** 1930)

Maxfield, Mary E., Ph.D. Woman's Med. College of Pennsylvania, Dept. of Pharmacology, Philadelphia. *Assoc. Prof.* (**1,** 1947)

May, Charles D., M.D. State Univ. of Iowa, College of Medicine, Dept. of Pediatrics, Iowa City. *Prof. and Head of Dept.* (**5,** 1952)

Mayer, Dennis T., Ph.D. Univ. of Missouri, Dept. of Agricultural Chemistry, 211 N. Schweitzer Hall, Columbia. *Professor.* (**2,** 1950)

Mayer, Jean, Sc.D., Ph.D. Harvard School of Public Health, Dept. of Nutrition, 695 Huntington Ave., Boston 15, Mass. *Asst. Prof.* (**5,** 1951)

Mayer, Manfred M., Ph.D. Johns Hopkins Univ., School of Hygiene, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Microbiology.* (**6,** 1946)

Mayerson, Hymen S., Ph.D. Tulane Univ. School of Medicine, Station 20, New Orleans, La. *Prof. and Head of Dept. of Physiology.* (**1,** 1928)

Maynard, Elliott Allen, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Asst. Prof. of Pharmacology and Toxicology.* (**3,** 1950)

Maynard, L. A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Nutrition and Biochemistry; Dir., School of Nutrition.* (**2R,** 1930; **5,** 1933)

Maynert, Everett W., Ph.D. Johns Hopkins Med. School, Dept. of Pharmacology, 710 N. Washington St., Baltimore 5, Md. (**3,** 1952)

Mazur, Abraham, Ph.D. City College of New York, 139th St. and Convent Ave., New York City 31. *Asst. Prof. in Dept. of Chemistry.* (**2,** 1944)

McCann, William S., M.D. Univ. of Rochester School of Medicine, Rochester, N. Y. *The Charles A. Dewey Prof. of Medicine.* (**2,** 1923; **5,** 1933)

McCarrell, Jane D., Ph.D. Hood College, Dept. of Biology, Frederick, Md. *Prof. and Head of Dept.* (**1,** 1942)

McCarty, Maclyn, M.D. 66th St. and York Ave., New York City 21. *Member, Rockefeller Inst. for Med. Research.* (**6,** 1947)

McCawley, Elton Leeman, Ph.D. Univ. of Oregon, School of Medicine, Portland. *Assoc. Prof. in Pharmacology.* (**3,** 1944)

McCay, Clive M., Ph.D. Cornell Univ., Animal Nutrition Lab., Dairy Bldg., Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1929; **5,** 1933)

McChesney, Evan William, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Member, Biological Div.* (**1,** 1944)

McClellan, Walter S., M.D. Univ. of North Carolina Med. School, Chapel Hill. (**1,** 1931)

McClendon, J. F., Ph.D. Route 1, Box 383, Trooper Rd., Norristown, Pa. *Biochemist, J. Gershon-Cohen Fndn.* (**1R,** 1910; **2R,** 1914; **5R,** 1935)

McClung, L. S., Ph.D. Indiana Univ., Bloomington. *Prof. and Chairman of Dept. of Bacteriology.* (**6,** 1948)

McCollum, Elmer Verner, Ph.D. Johns Hopkins Univ., Baltimore 18, Md. *Prof. Emeritus of Biochemistry.* (**2R,** 1910; **5,** 1933)

McCollum, Ernestine Becker, M.A. Johns Hopkins Univ. School of Hygiene, Baltimore 5, Md. *Asst. Prof. of Biochemistry.* (**5,** 1938)

McConnell, Kenneth P., Ph.D. U. S. Veterans Administration Hospital, Louisville, Ky. *Principal Scientist, Radioisotope Unit.* (**2,** 1951)

McCouch, Grayson Prevost, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Physiology.* (**1,** 1925)

McCouch, Margaret Sumwalt, Ph.D. Rose Tree Rd., R.F.D. 1, Media, Pa. (**1,** 1934)

McCoy, Richard H., Ph.D. Univ. of Pittsburgh,

School of Medicine, Pittsburgh 13, Pa. *Assoc. Prof. of Biochemistry.* (**2,** 1950; **5,** 1948)

McCrea, Forrest D., Ph.D. 1023 Demerius St., Durham, N. C. (**1,** 1929; **3,** 1937)

McCrudden, Francis H., M.D. 19 Stoneleigh Rd., West Newton 65, Mass., (**2R,** 1906)

McCulloch, Warren Sturgis, M.D. Massachusetts Inst. of Technology, Research Lab. of Electronics, Cambridge 39. *Staff Member.* (**1,** 1936)

McCutcheon, F. Harold, Ph.D. Univ. of Pennsylvania, School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiology; Head of Dept. of Physiology and Pharmacology.* (**1,** 1951)

McCutcheon, Morton, M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Pathology.* (**4,** 1925)

McDonald, Francis Guy, Ph.D. Mead Johnson and Co., Research Lab., 2404 W. Pennsylvania St., Evansville, Ind. *Biochemist.* (**2,** 1936; **5,** 1947)

McDonald, Roger K., M.D. USPHS Hospital, Baltimore 11, Md. *Surgeon, USPHS.* (**1,** 1949)

McEllroy, William Swindler, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Dean; Prof. of Physiological Chemistry.* (**2,** 1919)

McElroy, L. W. Ph.D. Univ. of Alberta, Dept. of Animal Science, Edmonton, Canada. *Assoc. Prof. of Animal Husbandry.* (**5,** 1944)

McElroy, William D., Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., 34th and Charles Sts., Baltimore 18, Md. *Dir. and Prof. of Biology.* (**1,** 1945; **2,** 1951)

McFarland, Ross A., Ph.D. Harvard Univ. School of Public Health, Boston, Mass. *Assoc. Prof. of Industrial Hygiene.* (**1,** 1943)

McFarlane, William Douglas. Ph.D. Canadian Breweries, Ltd., Research Div., 307 Fleet St. E., Toronto, Ontario, Canada. *Dir. of Research.* (**2,** 1933)

McGilvery, Robert W., Ph.D. Univ. of Wisconsin, Dept. of Physiological Chemistry, Service Memorial Inst., Madison 6. *Assoc. Prof.* (**2,** 1951)

McGinnis, James, Ph.D. State College of Washington, Dept. of Poultry Science, Pullman. *Prof. of Nutrition.* (**5,** 1952)

McGinty, Daniel A., Ph.D. Parke, Davis and Co., Detroit, Mich. *Lab. Dir.* (**1,** 1925)

McGuigan, Hugh Alister, Ph.D., M.D. 2418 Park Pl., Evanston, Ill. *Prof. Emeritus of Pharmacology, Univ. of Illinois College of Medicine.* (**1R,** 1907; **2,** 1906; **3R,** 1913)

McHargue, J. S., Ph.D. Univ. of Kentucky, Dept. of Chemistry, Kentucky Agricultural Exper. Station, Lexington. *Member Emeritus.* (**2R,** 1927)

McHenry, E. W., Ph.D. Univ. of Toronto, School of Hygiene, Toronto, Ontario, Canada. *Prof. of Public Health Nutrition.* (**2,** 1938; **5,** 1935)

McIntire, Floyd C., Ph.D. Abbot Labs., North Chicago, Ill. *Research Biochemist.* (**2,** 1952)

McIntyre, A. R., Ph.D., M.D. Univ. of Nebraska College of Medicine, 42nd and Dewey Ave., Omaha. *Prof. of Physiology and Pharmacology.* (**1,** 1933; **3,** 1938)

McKee, Albert P., M.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology* (**6,** 1948)

McKee, Clara M. Squibb Inst. for Med. Research, New Brunswick, N. J. *Assoc. in Microbiology.* (**6,** 1941)

McKee, Frank W., M.D. The Genesee Hospital, 224 Alexander St., Rochester 7, N. Y. *Dir. of Pathology and Labs.,* (**4,** 1947)

McKee, Ralph Wendell, Ph.D. Univ. of California, Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. *Professor.* (**2,** 1946)

McKennis, Herbert, Jr., Ph.D. Med. College of Virginia, Richmond. *Assoc. Prof. of Research Pharmacology.* (**2,** 1948)

McKibbin, John M., Ph.D. State Univ. of New York Med. Center at Syracuse Univ., Syracuse, N. Y. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

McLain, Paul L., M.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1948; **3,** 1940)

McLaren, A. Douglas, Ph.D. Univ. of California College of Agriculture, 120 Hilgard Hall, Berkeley 4. *Assoc. Prof. of Soil Chemistry.* (**2,** 1953)

McLean, Franklin C., Ph.D., M.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Pathological Physiology.* (**1,** 1914; **2R,** 1916; **3,** 1916)

McLean, I. William, Jr., M.D. Parke, Davis & Co., Virus Research Div., Detroit, Mich. *Asst. Dir., Microbiological Research.* (**6,** 1946)

McLean, Richard A., M.A. Smith, Kline & French Labs., 1530 Spring Garden St., Philadelphia, Pa. *Sr. Pharmacologist.* (**3,** 1953)

McLester, James S., M.D. 930 S. 20th St., Birmingham. *Consultant, Internal Medicine.* (**5,** 1933)

McLimans, William F., Ph.D. 2224 Tipperary Rd., Kalamazoo, Mich. *Head, Dept. of Bacteriology, Research Div., The Upjohn Co.* (**6,** 1949)

McManus, J. F. A., M.D. Univ. of Virginia, School of Medicine, Charlottesville. *Assoc. Prof. of Pathology.* (**4,** 1948)

McMaster, Philip D., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**4,** 1924; **6,** 1951)

McMeekin, Thomas L., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia, Pa. *Head of Protein Div.* (**2,** 1935)

McNamara, Bernard P., Ph.D. Med. Labs., Army Chemical Center, Md. *Asst. Chief, Pharmacology Br.* (**3,** 1947)

McNaught, James Bernard, M.D. Univ. of Colorado School of Medicine, Denver 20. *Prof. and Head of Dept. of Pathology.* (**4,** 1936)

McNeil, Crichton, M.D. Holy Cross Hospital,

Salt Lake City, Utah. *Pathologist and Dir.* (**6,** 1950)

McPhail, Murchie K., Ph.D. Natl. Defense Board, Suffield Exper. Station, Ralston, Alberta, Canada. *Research Scientist.* (**3,** 1941)

McQuarrie, Irvine, Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Pediatrics.* (**1,** 1949; **4,** 1927; **5,** 1933)

McShan, W. H., Ph.D. Univ. of Wisconsin, Zoology Dept., Madison 6. *Prof. of Zoochemistry.* (**2,** 1947)

Mead, James F., Ph.D. 16835 Livorno Drive, Pacific Palisades, Calif. *Chief, Biochemistry Div., Atomic Energy Project; Assoc. Clin. Prof. of Physiological Chemistry.* (**2,** 1952)

Mead, Jeremiah, M.D. Harvard School of Public Health, Physiology Dept., 55 Shattuck St., Boston 15, Mass. *Assoc.* (**1,** 1952)

Medes, Grace, Ph.D. Lankenau Hospital Research Inst., Philadelphia, Pa. *Sr. Member, Metabolic Chemistry.* (**2R,** 1930)

Medlar, Edgar M., M.D. Biggs Memorial Hospital, Ithaca, N. Y. *Chief Pathologist.* (**4,** 1927)

Meek, Walter J., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Physiology; Assoc. Dean of Med. School.* (**1,** 1908)

Mehl, John W., Ph.D. Univ. of Southern California, 3551 Univ. Ave., Los Angeles. *Prof. of Biochemistry and Nutrition.* (**2,** 1946)

Mehler, Alan H., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chemist.* (**2,** 1952)

Meier, Rolf, M.D. Bundestrasse 21, Basle, Switzerland. *Prof. of Pathological Physiology; Dir., Biological Research Labs., Ciba Ltd.* (**3,** 1949)

Meiklejohn, Gordon, M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 7. *Prof. and Head, Dept. of Medicine.* (**6,** 1948)

Meister, Alton, M.D. Natl. Cancer Inst., Bethesda 14, Md. *Head, Clin. Biochemical Research Sec.* (**2,** 1950)

Meites, Joseph, Ph.D. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Professor.* (**1,** 1949; **5,** 1952)

Melampy, Robert M., Ph.D. Iowa State College, 305 Science Bldg., Ames. *Prof. of Physiology.* (**1,** 1952)

Melcher, Leo R., M.D., Ph.D. Univ. of California Med. School, San Francisco 22. *Surgeon, USPHS* (**6,** 1952)

Melchior, Jacklyn B., Ph.D. Loyola Univ. Med. School, 706 S. Wolcott Ave., Chicago 12, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1953)

Mellon, Ralph R., M.D., D.P.H. Western Pennsylvania Hospital, Inst. of Pathology, Pittsburgh. *Director.* (**6R,** 1918)

Mellors, Robert C., Ph.D., M.D. 47 Oakwood Ave., Rye, N.Y. *Assoc., Sloan-Kettering Inst., Memorial Center, New York City.* (**2,** 1951)

Melnick, Daniel, Ph.D. The Best Foods, Inc., Research Labs., Bayonne, N. J. *Chief Technologist.* (**2,** 1940; **5,** 1942)

Melnick, Joseph L., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Microbiology.* (**2,** 1946; **6,** 1948)

Melville, Donald B., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2,** 1947)

Melville, Kenneth Ivan, M.D. McGill Univ., Montreal, Quebec, Canada. *Prof. and Chairman, Dept. of Pharmacology.* (**3,** 1931)

Mendel, Bruno, M.D. Univ. of Amsterdam, Pharmacotherapeutic Lab., Polderweg 20, Amsterdam, Holland. *Prof. and Head, Dept. of Pharmacology.* (**2,** 1947)

Mendelson, E. S., B.A. R.F.D. 2, Telford, Pa. *Physiologist; Head of Med. Sciences Div., Naval Air Exper. Station, Philadelphia, Pa.* (**1,** 1949)

Mendez, Rafael, M.D. Natl. Inst. of Cardiology, Calzada de la Piedad 300, Mexico D.F., Mexico. *Head of Dept. of Pharmacology.* (**3,** 1944)

Mendlowitz, Milton, M.D. 136 E. 64th St., New York City 21. *Adjunct Physician in Mt. Sinai Hospital of New York.* (**1,** 1949)

Meneely, George R., M.D. Thayer Veterans Admin. Hospital, Nashville, Tenn. *Asst. Chief of Med. Services and Dir. of Lab.; Asst. Prof. of Medicine, Vanderbilt Univ.* (**1,** 1951; **4,** 1946)

Meng, H. C., M.D., Ph.D. Vanderbilt Univ. Med. School, Dept. of Physiology, Nashville 5. *Asst. Prof.* (**1,** 1950)

Menkin, Valy, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Assoc. Prof. of Exper. Pathology.* (**1,** 1932; **4,** 1932; **6,** 1931)

Menten, Maud L., M.D., Ph.D. 6249 Elm St., Vancouver, B. C., Canada. *Retired Prof. of Pathology, Univ. of Pittsburgh.* (**1R,** 1915; **4,** 1927)

Mertz, Edwin T., Ph.D. Purdue Univ., Dept. of Biochemistry, Lafayette, Ind. *Assoc. Prof.* (**2,** 1950)

Mettier, Stacy R., M.D. Univ. of California Hospital, San Francisco. *Prof. of Medicine.* (**4,** 1932)

Mettler, Fred A., Ph.D., M.D. Sc.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Neurology, New York City. *Prof. of Anatomy.* (**1,** 1937)

Meyer, Arthur E., Ph.D. Fellows Pharmaceutical Lab., New York City. *Dir. of Research.* (**1,** 1948)

Meyer, Curtis E., Ph.D. Upjohn Co., Kalamazoo, Mich. *Sr. Scientist, Nutrition.* (**2,** 1942)

Meyer, Dallas K., Ph.D. 401 Crestland Rd., Columbia, Mo. *Assoc. Prof. of Physiology, Univ. of Missouri School of Medicine.* (**1,** 1951)

Meyer, Frieda L., Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition, Food and Nutrition Div., Washington 25, D. C. *Nutrition Specialist.* (**5,** 1949)

Meyer, Karl, M.D., Ph.D. Columbia Univ. Col-

lege of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry, Dept. of Medicine.* (**2,** 1934)

Meyer, Karl F., M.D., Ph.D. George W. Hooper Foundation, Univ. of California Med. Center, San Francisco. *Director.* (**4,** 1930; **6,** 1922)

Meyer, Roland K., Ph.D. Univ. of Wisconsin, Biology Bldg., Madison 6. *Prof. of Zoology.* (**1,** 1949)

Mezey, Kálmán, M.D. Calle 84, No. 9–68, Bogota, Colombia, South America. *Prof. of Pharmacology, Javeriana Univ. Med. School.* (**3,** 1950)

Michel, Harry O., Ph.D. Med. Labs., Army Chemical Center, Md. *Asst. Chief, Enzyme Chemistry Br.* (**2,** 1949)

Mickelsen, Olaf, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Asst. Chief, Lab. of Biochemistry and Nutrition.* (**2,** 1944)

Mider, George Burroughs, M.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Assoc. Dir. in Charge of Research.* (**4,** 1940)

Miles, Walter R., Ph.D. Yale Univ., 333 Cedar St., New Haven, Conn. *Prof. of Psychology, School of Medicine and Inst. of Human Relations.* (**1,** 1919)

Milhorat, Ade T., M.D. Cornell Univ. Med. College, New York City 21. *Asst. Prof. of Medicine and Instr. in Pharmacology; Research Fellow, Russell Sage Inst. of Pathology.* (**1,** 1934; **3,** 1937; **5,** 1935)

Militzer, Walter E., Ph.D. Univ. of Nebraska, Lincoln. *Dean, College of Arts & Sci.* (**2,** 1951)

Miller, Augustus Taylor, Jr., Ph.D., M.D. Univ. of North Carolina Med. School, Chapel Hill. *Prof. of Physiology.* (**1,** 1944)

Miller, Benjamin F., M.D. Peter Bent Brigham Hospital, 721 Huntington Ave., Boston 15, Mass. *Sr. Assoc. Physician—Medicine.* (**2,** 1938)

Miller, Carey D., M.S. Univ. of Hawaii, Honolulu. *Prof. of Foods and Nutrition, Hawaii Agricultural Exper. Station.* (**5,** 1942)

Miller, C. Phillip, M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine.* (**4,** 1925; **6,** 1928)

Miller, Edgar G., Jr., Ph.D. Columbia Univ., 206 Low Memorial Library, New York City 27. *Prof. of Biochemistry; Dean of Grad. Faculties.* (**2,** 1930)

Miller, Elizabeth C., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Asst. Prof. of Oncology.* (**2,** 1951)

Miller, Franklin R., M.D. Jefferson Med. College and Hospital, Div. of Hematology, Philadelphia, Pa. *Asst. Dir.* (**4,** 1940)

Miller, Frederick R., M.D. 280 Carlton St., Toronto 2, Canada. (**1,** 1908)

Miller, Gail L., Ph.D. QM Corps, Pioneering Research Labs., 2800 S. 20th St., Philadelphia 45, Pa. *Head, Biochemistry Lab.* (**2,** 1949)

Miller, George A., Ph.D. Massachusetts Institute of Technology, Cambridge 39. *Assoc. Prof., Psychology Sec.* (**1,** 1948)

Miller, George H., M.D. American College of Surgeons, 40 E. Erie St., Chicago 11, Ill. *Dir. of Educational Activities.* (**3,** 1925)

Miller, James A., Ph.D. Univ. of Wisconsin Med. School, McArdle Mem. Lab. for Cancer Research, Madison 6. *Prof. of Oncology.* (**2,** 1949)

Miller, Leon L., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Assoc. Prof. of Radiation Biology and Biochemistry.* (**2,** 1947)

Miller, Lila, Ph.D. Univ. of Michigan, Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1946)

Miller, Lloyd C., Ph.D. U. S. Pharmacopeia, 46 Park Ave., New York City 16. *Dir. of Pharmacopeial Revision.* (**3,** 1938)

Miller, R. C., Ph.D. Pennsylvania State College, State College. *Prof. of Agricultural and Biological Chemistry.* (**5,** 1935)

Miller, Zelma Baker, Ph.D. Children's Cancer Research Foundation, Children's Med. Center, Boston, Mass. *Chief, Enzyme Lab.* (**2,** 1940)

Millican, R. Carl, M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, USPHS.* (**3,** 1951)

Millman, Nathan, M.Sc., Ph.D. 50 Brookside Ave., Apt. 6A, Somerville, N. J. *Dir., Div. of Physiology and Pharmacology, Ortho Research Foundation, Raritan, N. J.* (**1,** 1950)

Mills, Clarence A., Ph.D., M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Prof. of Exper. Medicine, Univ. of Cincinnati.* (**1,** 1921; **2,** 1921)

Minard, David, Ph.D., M.D. Harvard School of Public Health, 55 Shattuck St., Boston, Mass. (**1,** 1950)

Minot, Ann S., Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Assoc. Prof. of Biochemistry; Dir., Clin. Chemistry Labs.* (**1,** 1923)

Minz, Bruno, M.D. Laboratoire de Physiologie Generale de la Sorbonne, Paris 5e, France. *Research Prof.* (**3,** 1952)

Mirick, George S., M.D. Johns Hopkins Univ., School of Medicine, Baltimore, Md. *Assoc. Prof. of Medicine.* (**6,** 1950)

Mirsky, Alfred E., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2,** 1941)

Mirsky, I. Arthur, M.D. Univ. of Pittsburgh School of Medicine, Dept. of Clinical Science, O'Hara St., Pittsburgh 13, Pa. *Prof. and Chairman of Dept.* (**1,** 1936)

Mitchell, Harold H., M.D. 9730 Wilshire Blvd Beverly Hills, Calif. *Assoc. Scientist, Rand Corp.* (**6,** 1943)

Mitchell, Harold H., Ph.D. Univ. of Illinois, 125 Animal Sciences Lab., Urbana. *Prof. of Animal*

Nutrition, Animal Science Dept. (**2R,** 1919; **5,** 1933)

Mitchell, Helen S., Ph.D. Univ. of Massachusetts, Amherst. *Dean of School of Home Economics.* (**5,** 1933)

Mitchell, Philip H., Ph.D. Brown Univ., Providence, R. I. *Prof. Emeritus.* (**2R,** 1909)

Modell, Walter, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City, *Asst. Prof. in Pharmacodynamics.* (**3,** 1944)

Moe, Gordon Kenneth, Ph.D., M.D. State Univ. of New York at Syracuse, School of Medicine, Dept. of Physiology, Syracuse. *Prof. and Head of Dept.* (**1,** 1952; **3,** 1944)

Mohn, James F., M.D. Dept. of Experimental Immunology, AMSGS, Walter Reed AMC, Washington 12, D. C. *Capt.* (**6,** 1946)

Molitor, Hans, M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Director.* (**1,** 1933; **3,** 1942)

Molland, Jacob, M.D., Ph.D. Univ. of Oslo, Oslo, Norway. *Prof. and Head, Dept. of Pharmacology.* (**3,** 1948)

Molnar, George W., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Physiologist.* (**1,** 1949)

Molomut, Norman, Ph.D. Biological Labs., 16 Clinton St., Brooklyn 2, N. Y. *Dir. of Research and of Labs.* (**6,** 1942)

Mommaerts, Wilfried F. H. M., Ph.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Assoc. Prof.; Established Investigator, Am. Heart Assn.* (**2,** 1951)

Monge, Carlos, D.Sc. (Hon.) Inst. of Biology, Andina Univ., Lima, Peru. *Dir., School of Advanced Studies.* (**1H,** 1952)

Montgomery, Hugh, M.D. Univ. of Pennsylvania Hospital, 36th and Spruce Sts., Philadelphia. *Assoc. Prof. of Medicine.* (**1,** 1950)

Moon, Henry D., M.D. Univ. of California Med. School, Div. of Pathology, San Francisco 22. *Assoc. Prof. of Pathology; City Pathologist.* (**4,** 1950)

Moon, Virgil H., M.Sc., M.D. Univ. of Miami, Med. Research Unit., Coral Gables 34, Fla. *Research Prof. of Pathology.* (**4,** 1934)

Moore, Arthur R., Ph.D. Univ. of Portland, Dept. of Biology, Portland, Ore. *Professor.* (**1,** 1912)

Moore, Carl Vernon, M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine.* (**4,** 1938; **5,** 1941)

Moore, Dan H., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. (**1,** 1948)

Moore, Lane A., Ph.D. U. S. Dept. of Agriculture, Div. of Nutrition and Physiology, Bureau of Dairy Industry, Beltsville, Md. *Head, Section of Dairy Cattle Nutrition.* (**5,** 1940)

Moore, Robert A., M.D., Ph.D. Washington Univ. Med. School, St. Louis, Mo. *Prof. and Head, Dept. of Pathology.* (**4,** 1929)

Moore, Robert M., M.D. Univ. of Texas Med. School, Galveston. (**1,** 1932)

Moore, Stanford, Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Member.* (**2,** 1949)

Moorhouse, Victor Henry K., M.D. 32 Amanda St., Orangeville, Ontario, Canada. *Prof. Emeritus of Physiology, Univ. of Manitoba, Winnipeg.* (**1,** 1912)

Morales, Manuel F., Ph.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Physical Biochemistry Div.* (**1,** 1950)

More, Robert H., M.Sc., M.D. Queen's Univ., Dept. of Pathology, Kingston, Ont., Canada. *Prof. and Head of Dept.* (**4,** 1949)

Morehouse, Laurence E., Ph.D. Univ. of Southern California, Los Angeles 7. *Assoc. Prof.* (**1,** 1947)

Morehouse, Margaret G., Ph.D. Univ. of Southern California, School of Medicine, Los Angeles 7. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Morgan, Agnes Fay, Ph.D. Univ. of California, Berkeley 4. *Prof. of Home Economics; Biochemist, Agricultural Exper. Station.* (**2,** 1929; **5,** 1933)

Morgan, Charles F., Ph.D. Georgetown Univ. School of Medicine, Washington, D. C. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1948; **3,** 1947)

Morgan, Clifford T., Ph.D. Johns Hopkins Univ., Psychology Dept., Baltimore 18, Md. *Prof. and Chairman of Dept.* (**1,** 1943)

Morgan, Joseph F., Ph.D. Laboratory of Hygiene, Dept. of Natl. Health and Welfare, 45 Spencer St., Ottawa, Canada. *Officer-in-Charge, Tissue Culture Sec.* (**2,** 1953)

Morgulis, Sergius, Ph.D. Univ. of Nebraska College of Medicine, Omaha 5. *Prof and Chairman of Dept. of Biochemistry.* (**1,** 1914; **2R,** 1916)

Morison, Robert S., M.D. Rockefeller Foundation, 66th St. and York Ave., New York City 21. *Assoc. Dir. of Medicine and Public Health.* (**1,** 1938)

Moritz, Alan R., M.D. Western Reserve Univ., Cleveland, Ohio. *Prof. of Pathology and Dir. of the Institute.* (**4,** 1934)

Morrell, Clarence Allison, Ph.D. Dept. of Natl. Health and Welfare, 35 John St., Ottawa, Ontario, Canada. *Dir., Food and Drug Divisions.* (**3,** 1937)

Morris, Harold P., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Principal Biochemist in Nutrition.* (**2,** 1944; **5,** 1943)

Morris, J. Anthony, M.Sc., Ph.D. Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Army Med. Center, Washington 12, D. C. *Med. Bacteriologist.* (**6,** 1951)

Morris, Lucien E., M.D. State Univ. of Iowa

Hospitals, Div. of Anesthesia, Iowa City. *Assoc. Prof.* (**3,** 1952)

Morris, Marion C., Ph.D. Natl. Foundation for Infantile Paralysis, 120 Broadway, New York City. *Asst. Dir., Professional Education.* (**6,** 1936)

Morrison, Dempsie B., Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Dir. of Clin. Chemistry; Assoc. Prof. of Chemistry.* (**2,** 1936)

Morrison, James L., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

Morrison, Peter R., Ph.D. Univ. of Wisconsin, Madison 6. *Assoc. Prof. of Zoology and Physiology.* (**1,** 1952; **2,** 1950)

Morse, Minerva, Ph.D. 5525 Kimbark Ave., Chicago, Ill. *Research Assoc., Dept. of Pediatrics, Univ. of Chicago.* (**2,** 1934)

Mortimer, Bernard, Ph.D., M.D. 25 N. Ottawa St., Joliet, Ill. *Cook County Hospital, Chicago.* (**1,** 1936)

Morton, John J., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Surgery.* (**4,** 1927)

Moses, Campbell, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Assoc. Research Prof. of Medicine.* (**1,** 1948)

Moss, W. Glen, Ph.D. Univ. of Miami Med. School, Coral Gables 34, Fla. *Assoc. Prof.* (**1,** 1951)

Motley, Hurley L., Ph.D., M.D. Hospital of the Good Samaritan, 1212 Shatto St., Los Angeles 17. *Prof. of Medicine and Dir. Cardiorespiratory Lab.* (**1,** 1947)

Moulder, James W., Ph.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, 5724 Ellis Ave., Chicago 37, Ill. *Assoc. Prof. of Biochemistry, Depts. of Biochemistry, Bacteriology and Parasitology.* (**2,** 1950)

Moulton, C. Robert, Ph.D. 5602 Dorchester Ave., Chicago, Ill. (**5,** 1933)

Mountain, Isabel M., Ph.D. Westchester County Dept. of Laboratories and Research, Valhalla, N. Y. (**6,** 1947)

Mountcastle, Vernon B., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiology.* (**1,** 1949)

Moxon, Alvin L., Ph.D. Ohio Agricultural Experiment Station, Wooster. *Prof. and Assoc. Chairman, Animal Science Dept.; Prof. of Biochemistry.* (**2,** 1944)

Moyer, Arden W., Ph.D. 138 Fremont Ave., Park Ridge, N. J. *Research Biochemist, Lederle Labs., Pearl River, N. Y.* (**6,** 1946)

Moyer, Carl A., Ph.D. Washington Univ., School of Medicine, Dept. of Surgery, St. Louis 10, Mo. (**1,** 1943)

Moyer, John Henry, III, M.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Texas Med. Center, Houston 5. *Assoc. Prof. of Medicine and Pharmacology.* (**3,** 1951)

Mudd, Stuart, M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Microbiology.* (**1,** 1921; **4,** 1927; **6,** 1927)

Mudge, Gilbert H., M.D. D.M.S., Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Medicine.* (**1,** 1951)

Muehlberger, Clarence W., Ph.D. State Health Dept. Labs., Lansing, Mich. *State Toxicologist.* (**3,** 1928)

Mueller, Gerald C., M.D., Ph.D. Univ. of Wisconsin, McArdle Lab., Madison. *Asst. Prof.* (**2,** 1952)

Mueller, J. Howard, Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Prof. of Bacteriology and Immunology.* (**2,** 1922; **4,** 1927; **6,** 1920)

Muirhead, E. E., Southwestern Med. College, Dept. of Pathology, Dallas, Texas. *Prof. and Chairman of Dept.; Dir. of Labs., Parkland Hospital.* (**1,** 1953; **4,** 1952)

Mukherji, B., D.Sc. Central Drug Research Inst., Lucknow, India. *Director.* (**3,** 1938)

Mulder, Arthur G., Ph.D. Stritch School of Medicine of Loyola Univ., 706 S. Wolcott St., Chicago, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937)

Mulford, Dwight J., Ph.D. Kansas Univ. Med. School, Dept. of Biochemistry, Lawrence. *Assoc. Prof.* (**2,** 1948)

Mulinos, M. G., M.D., Ph.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. and 105th St., New York City 29. *Assoc. Prof. of Pharmacology and Physiology.* (**3,** 1931)

Mull, James W., Ph.D. 1870 Grove Ave., Quincy, Ill. *Assoc., Quincy Specialties Co.* (**2,** 1937)

Müller, Otto H., Dr. rer. nat. State Univ. of New York, Med. Center at Syracuse, Dept. of Physiology, Syracuse 10. *Assoc. Prof.* (**1,** 1947)

Muller, Robert H., M.D. 36 Glen Ridge Pkwy., Montclair, N. J. *Captain, Med. Corps.* (**6,** 1950)

Mulligan, Richard M., M.D. Univ. of Colorado School of Medicine, 4200 East 9th Ave., Denver. *Prof. of Pathology.* (**4,** 1947)

Mullin, F. J., Ph.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago 12, Ill. *Dean and Prof. of Physiology.* (**1,** 1937)

Mullins, L. J., Ph.D. Purdue Univ., Biophysical Lab., Lafayette, Ind. *Assoc. Prof. of Biophysics.* (**1,** 1952)

Munoz, Joaquin, Ph.D. Sharp & Dohme, Inc. Div. of Merck, Inc., West Point, Pa. *Research Assoc.* (**6,** 1951)

Munsell, Hazel E., Ph.D. 8 N. Main St., Monson, Mass. *Dir., Food Analysis Lab., Pan American Sanitary Bur., Quito, Ecuador.* (**5,** 1933)

Munson, Paul L., Ph.D. Harvard School of Dental

Medicine, 188 Longwood Ave., Boston 15, Mass. *Asst. Prof. of Dental Science.* (**2,** 1950)

Muntwyler, Edward, Ph.D. State Univ. Med. Center at New York, 350 Henry St., Brooklyn 2, N. Y. *Prof. of Biochemistry.* (**2,** 1931)

Muntz, John A., Ph.D. 3356 Euclid Heights Blvd., Cleveland Heights, Ohio. *Assoc. Prof. of Biochemistry, Western Reserve Univ.* (**2,** 1948)

Murlin, John R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. Emeritus of Physiology and Dir. Emeritus of Dept. of Vital Economics.* (**1R,** 1906; **2R,** 1908; **5,** 1933)

Murphy, Quillian R., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Physiology, Madison 6. *Asst. Prof.* (**1,** 1949)

Murray, Everitt G. D., M.A. McGill Univ., Montreal, Quebec, Canada. *Prof. and Head of Dept. of Bacteriology and Immunology; Bacteriologist-in-Chief to the Royal Victoria Children's Memorial and Alexandra Hospitals.* (**6,** 1933)

Murray, F. Joseph, Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, Ohio. *Head, Dept. of Microbiology.* (**6,** 1950)

Musacchia, X. J., Ph.D. St. Louis Univ. Biological Labs., 1402 S. Grand Blvd., St. Louis 4, Mo. *Asst. Prof.* (**1,** 1952)

Mushett, Charles W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Pathology.* (**4,** 1948)

Muus, Jytte, Mag. Scient. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**2,** 1946)

Myers, Chester N., Ph.D. 34 Cedar Place, Yonkers 5, N. Y. *Chief, Div. Chemotherapy, New York Skin and Cancer Hospital; Dir. of Chemical and Clin. Research, H. A. Metz Labs., Inc.* (**2R,** 1922)

Myers, J. D., M.D. Duke Univ. School of Medicine, Dept. of Medicine, Durham, N. C. *Assoc. Prof.* (**1,** 1951)

Myers, William G., Ph.D., M.D. 2724 Wexford Rd., Columbus 12, Ohio. *Julius Stone Research Assoc.; Prof. of Medical Biophysics, Ohio State Univ.* (**1,** 1952)

Nachmansohn, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (**1,** 1940; **2,** 1951)

Nadel, Eli M., Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Research Pathologist; Sr. Surgeon.* (**4,** 1953)

Nadler, J. Ernest, M.D., Med.D.Sc. 80-16 Lefferts Blvd., Kew Gardens 15, N. Y. *Attending Consultant, USVA Hospital, Bronx.* (**3,** 1940)

Nahum, Louis N., M.D. 1142 Chapel St., New Haven, Conn. *Asst. Prof. of Physiology, Yale Univ.* (**1,** 1934)

Najjar, Victor A., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Pediatrics.* (**2,** 1946)

Nash, Thomas P., Jr., Ph.D. 874 Union Ave., Memphis, Tenn. *Chief, Div. of Chemistry, Univ. of Tennessee College of Medicine; Dean of School of Biological Sciences.* (**2,** 1923)

Nason, Alvin, Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., Baltimore 18, Md. *Asst. Prof.* (**2,** 1953)

Nasset, Edmund S., Ph.D. Univ. of Rochester, School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology.* (**1,** 1932; **5,** 1940)

Nastuk, William L., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Assoc. Prof. of Physiology.* (**1,** 1949)

Natelson, Samuel, Ph.D. Rockford Memorial Hospital, 507 Chestnut St., Rockford, Ill. *Chairman, Dept. of Biochemistry.* (**2,** 1950)

Nathanson, Ira T., M.D. Massachusetts General Hospital, Boston. *Asst. in Surgery; Instr. in Surgery, Harvard Med. School.* (**1,** 1943)

Necheles, Heinrich, M.D., Ph.D. Michael Reese Hospital, Chicago, Ill. *Dir. of Gastrointestinal Research.* (**1,** 1929)

Neff, William D., Ph.D. Univ. of Chicago, Dept. of Psychology, Faculty Exchange, Chicago 37, Ill. *Assoc. Prof.* (**1,** 1950)

Neilands, John B., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley. *Asst. Prof. of Biochemistry.* (**2,** 1953)

Neill, James M., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Bacteriology and Immunology.* (**6,** 1930)

Neilson, Charles Hugh, Ph.D., M.D. Humboldt Bldg., St. Louis, Mo. *Assoc. Dean and Prof. of Medicine, St. Louis Univ. Med. School.* (**2,** 1906)

Nelson, Arthur A., M.D., Ph.D. 1714 Corwin Dr., Silver Spring, Md. *Med. Officer (Pathology), Food & Drug Admin., Div. of Pharmacology.* (**4,** 1942)

Nelson, Carl T., M.D. 630 W. 168th St., New York City 32. *Prof. of Dermatology, Columbia Univ.* (**6,** 1943)

Nelson, Erwin E., Ph.D., M.D. St. Louis Univ., School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Prof. and Dir. of Pharmacology.* (**3,** 1924)

Nelson, E. M., Ph.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Chief, Div. of Nutrition.* (**2,** 1927; **5,** 1933)

Nelson, John B., Ph.D. Rockefeller Inst. for Med. Research, New York City. *Assoc. Member.* (**4,** 1934)

Nelson, John M., Ph.D. 39 Claremont Ave., New York City 27. *Prof. Emeritus of Organic Chemistry, Columbia Univ.* (**2R,** 1923)

Nelson, Marjorie M., Ph.D. Univ. of California, Inst. of Exper. Biology, Berkeley. *Asst. Research Biochemist.* (**5,** 1950)

Nelson, Norton, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Industrial Medicine.* (**2,** 1946)

Nelson, P. Mabel, Ph.D. Iowa State College, Ames. *Prof. of Foods and Nutrition.* (**5R,** 1934)

Nelson, Tell, M.D. 1415 Kalakaua Ave., Honolulu 14, T. H. *Practicing Physician.* (**6,** 1938)

Nelson, Victor E., M.S. 423 Niagara St., Eau Claire, Wis. (**2,** 1924)

Nelson, Walter L., Ph.D. Cornell Univ. Dept. of Biochemistry, Ithaca, N. Y. *Prof. of Biochemistry.* (**5,** 1951)

Nelson, Warren O., Ph.D. Univ. of Iowa School of Medicine, Iowa City. *Prof. of Anatomy.* (**1,** 1937)

Neter, Erwin, M.D. Children's Hospital, 219 Bryant St., Buffalo, N. Y. *Dir., Dept. of Bacteriology.* (**6,** 1937)

Nettleship, Anderson, M.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. and Head of Dept. of Pathology.* (**4,** 1942)

Neuberg, Carl, Ph.D., M.D. Polytechnic Inst. of Brooklyn, Dept. of Chemistry, 99 Livingston St., Brooklyn 2, N. Y. (**2R,** 1944)

Neuman, William F., Ph.D., Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Pharmacology.* (**2,** 1949; **3,** 1952)

Neumann, Charles, M.D. 2 Schuyler St., New Rochelle, N. Y. *Resident Surgeon, New York Hospital; Assoc. Prof of Clin. Surgery, New York Univ. Post-Grad. Med. School.* (**1,** 1944)

Neurath, Hans, Ph.D. Univ. of Washington School of Medicine, Dept. of Biochemistry, Seattle 5. *Prof. and Exec. Officer of Dept.* (**2,** 1940; **6,** 1944)

Neuwelt, Frank, M.D. 504 Broadway, Gary, Ind. *Research Assoc., Dept. of Gastrointestinal Research, Michael Reese Hospital.* (**1,** 1940)

Neuwirth, Isaac, Ph.D. 209 E. 23rd St., New York City 10. *Prof. of Pharmacology, New York Univ. College of Dentistry.* (**2,** 1924; **3,** 1931)

Newman, Elliot V., M.D., Vanderbilt Univ. Hospital, Nashville, Tenn. *Prof. of Exper. Medicine.* (**1,** 1948)

Newman, Henry W., M.D. Stanford Med. School, Clay and Webster Sts., San Francisco 15, Calif. *Assoc. Prof. of Medicine.* (**3,** 1949)

Nice, Leonard B., Ph.D. 5725 S. Harper Ave., Chicago 37, Ill. (**1,** 1921)

Nicholas, John S., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. of Biology.* (**1,** 1927)

Nichols, John, Ph.D. 620 Randolph St., Charleston, West Va. (**1,** 1951)

Nicholson, Hayden C., M.D. Univ. of Arkansas, School of Medicine, Little Rock. *Dean.* (**1,** 1932)

Nickerson, John L., Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1945)

Nickerson, Mark, Ph.D., M.D. Univ. of Michigan, School of Medicine, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof.* (**1,** 1951; **3,** 1947)

Nicoll, Paul A., Ph.D. Indiana Univ., Bloomington. *Assoc. Prof. of Physiology.* (**1,** 1945)

Niemann, Carl G., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Organic Chemistry.* (**2,** 1940)

Nims, Leslie F., Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, Long Island, N. Y. *Sr. Physiologist.* (**1,** 1940)

Noble, Robert Laing, M.D., Ph.D. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. (**1,** 1941)

Noell, Werner K., M.D. U.S.A.F. School of Aviation Medicine, Randolph Field, Tex. *Research Physiologist.* (**1,** 1950)

Nord, F. F., D.Sc. Fordham Univ., New York City. *Prof. of Organic Chemistry and Enzymology.* (**2,** 1940)

Norris, L. C., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1939; **5,** 1934)

Northrop, J. H., Ph.D., Sc.D. Univ. of California, Berkeley 4. *Member of Rockefeller Inst.* (**2,** 1938)

Northup, David W., Ph.D. West Virginia Univ. Med. School, Morgantown. *Prof. of Physiology.* (**1,** 1936)

Novelli, G. David, Ph.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Assoc. Prof. of Microbiology.* (**2,** 1951)

Novikoff, Alex B., Ph.D. 37 Bilodeau Ct., Burlington, Vt. (**2,** 1952)

Novy, F. G., M.D., Sc.D. 721 Forest Ave., Ann Arbor, Mich. *Dean Emeritus of Med. School and Prof. Emeritus of Bacteriology, Univ. of Michigan.* (**1R,** 1901; **2R,** 1906; **4R,** prior to 1919; **4H, 6H**)

Nowinski, W. W., Ph.D. Univ. of Texas School of Medicine, Galveston. *Assoc. Prof. of Biochemistry; Dir., Tissue Metabolism Research Lab.* (**1,** 1948)

Nungester, Walter James, Ph.D., M.D. Univ. of Michigan, Ann. Arbor. *Professor and Chairman of Immunology Dept.* (**6,** 1949)

Nyboer, Jan, Sc.D., M.D. Plainfield, N.H. *Asst. Prof. of Physiological Sciences, Dartmouth Med. School.* (**1,** 1951)

Nyc, Joseph Frank, Ph.D. 14357 Miranda St. Van Nuys, Calif. *Asst. Prof. of Physiological Chemistry, Univ. of California School of Medicine, Los Angeles.* (**2,** 1952)

Oberst, Fred W., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Gassing Branch.* (**2,** 1936; **3,** 1949)

Ochoa, Severo, M.D. New York Univ. College of

Medicine, 477 First Ave., New York City 16. *Prof. of Pharmacology.* (**2,** 1942)

O'Dell, Boyd L., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Prof. of Agricultural Chemistry.* (**2,** 1952; **5,** 1953)

Ogden, Eric. Ohio State Univ. College of Medicine, Columbus 10. *Prof. of Physiology.* (**1,** 1941)

Ogle, Kenneth N., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant in Sec. on Biophysical Research and Research Consultant in Sec. on Ophthalmology; Prof. of Physiological Optics, Univ. o, Minn.* (**1,** 1953)

O'Hare, James P., M.D. 520 Commonwealth Ave., Boston, Mass. *Physician, Peter Bent Brigham Hospital; Emeritus Lecturer in Medicine, Harvard Med. School.* (**4,** 1927)

Ohlson, Margaret A., Ph.D. Michigan State College, Dept. of Foods and Nutrition, East Lansing. *Prof. and Head of Dept. of Foods and Nutrition.* (**5,** 1945)

Okey, Ruth, Ph.D. Univ. of California, Dept. of Home Economics, Berkeley 4. *Prof. of Lipid Metabolism; Biochemist, Agric. Exper. Station.* (**2,** 1922; **5,** 1933)

Olcott, Harold S., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Head of Vegetable Processing Div.* (**2,** 1935)

Oldham, Helen, Ph.D. U. S. Dept. of Agriculture Research Center, Room 301 North Bldg., Beltsville, Md. *Nutrition Specialist.* (**5,** 1946)

Oleson, J. J., Ph.D. American Cyanamid Co., Lederle Labs. Div., Pearl River, N. Y. *Head, Dept. of Nutrition and Exper. Biology.* (**2,** 1950)

Olitsky, Peter K., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Emeritus Member.* (**6R,** 1917)

Oliver, Jean Redman, M.D. 7 Essex Rd., Summit, N. J. *Prof. of Pathology, N. Y. State Univ. Med. College, Overlook Hospital, Summit.* (**1,** 1924; **4,** 1924)

Oliver, Wade W., M.D. Rockefeller Foundation, New York City. *Assoc. Dir. of Div. of Med. Sciences.* (**4,** 1925)

Olmsted, J. M. D., Ph.D. Univ. of California, Berkeley. *Prof. of Physiology.* (**1R,** 1920)

Olsen, Norman S., Ph.D. Thayer Veterans Admin. Hospital, Research Lab., Nashville 5, Tenn. *Chief, Biochemistry Div.* (**1,** 1948; **2,** 1949)

Olson, Byron J., Ph.D., M.D. National Insts. of Health, Bethesda, Md. *Chief, Sec. of Bacteriology and Mycology.* (**6,** 1948)

Olson, Carl, Jr., D.V.M., Ph.D. Univ. of Nebraska, Lincoln. *Prof. and Chairman of Dept. of Animal Pathology and Hygiene.* (**4,** 1937)

Olson, Oscar E., Ph.D. 629 13th Ave., Brookings, So. Dak. *Head, Station Biochemistry, Agricultural Exper. Sta., So. Dak. State College.* (**2,** 1953)

Olson, Robert E., Ph.D., M.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Biochemistry and Nutrition, Pittsburgh 13, Pa. *Prof. and Head of Dept.* (**2,** 1951; **5,** 1952)

Olson, Rodney A., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Physiologist.* (**1,** 1953)

Olson, William H., M.D. Michael Reese Hospital, Dept. of Gastrointestinal Research, 29th and Ellis Ave., Chicago, Ill. *Asst. Dir.* (**1,** 1951)

Opdyke, David F., Ph.D. Merck Inst. for Therapeutic Research, Dept. of Physiology, Rahway, N. J. *Head of Dept.* (**1,** 1945)

Opie, Eugene L., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. (**1R,** 1906; **4R,** 1913; **6R,** 1923)

Oppenheimer, Enid Tribe, 124 E. 61st. St., New York City. *Instr. in Physiology, Columbia Univ.* (**1,** 1932)

Oppenheimer, Ernst, M.D. 199 Greenwood Way, Mill Valley, Calif. (**3,** 1944)

Oppenheimer, Morton Joseph, Ed.M., M.D. 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology, Temple Univ. School of Medicine.* (**1,** 1942)

Opsahl, Jeanette Clara, Ph.D. Yale Univ., School of Medicine, Dept. of Physiological Chemistry, New Haven, Conn. *Instr. (Research).* (**2,** 1952)

Orbeli, L. A. Academy of Sciences of the USSR, Moscow, USSR. (**1H,** 1946)

Orcutt, James A., Ph.D. Eaton Labs., Inc., Norwich, N. Y. *Chief, Div. of Pharmacology.* (**3,** 1952)

Orloff, Jack, M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda, Md. *Investigator.* (**1,** 1953)

Orten, Aline Underhill, Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Research Assoc., Dept. of Physiological Chemistry.* (**5,** 1946)

Orten, James M., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1936; **5,** 1937)

Orth, O. Sidney, Ph.D., M.D. Univ. of Wisconsin, Dept. of Anesthesiology, University Hospitals, 1300 University Ave., Madison 6. *Prof. and Chairman of Dept.* (**1,** 1942; **3,** 1944)

Oser, Bernard L., Ph.D. Food Research Labs., Inc., 48–14 33rd St., Long Island City 1, N. Y. *Director.* (**5,** 1945)

Osler, Abraham G., Ph.D. Johns Hopkins Univ., Dept. of Microbiology, 615 N. Wolfe St., Baltimore, Md. *Asst. Prof.* (**6,** 1949)

Oster, Robert H., Ph.D. Univ. of Maryland School of Dentistry, Baltimore. *Prof. of Physiology.* (**1,** 1938)

Osterberg, Arnold E., Ph.D. Abbott Labs., Med. Dept., N. Chicago, Ill. *Clinical Investigator.* (**2,** 1933)

Osterhout, Marian I., Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc., Div. of General Physiology.* (**1,** 1927)

Osterhout, W. J. V., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**1,** 1910)

Otis, Arthur B., Ph.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Physiology and Surgery.* (**1,** 1946)

Ott, Walther H., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Biological Control and Poultry Nutrition.* (**5,** 1949)

Overman, Richard R., Ph.D. Univ. of Tennessee College of Medicine, Division of Physiology, Memphis. *Professor; Dir., Clin. Physiology, Inst. of Clin. Investigation.* (**1,** 1946)

Owen, Charles A., Jr., M.D., Ph.D. Mayo Clinic, Univ. of Minnesota, Rochester. *Consultant in Clinical Pathology.* (**1,** 1953; **4,** 1951)

Owen, Seward E., Ph.D. 418 S. 20th Ave., Maywood, Ill. *Bacteriologist, Veterans Administration Hospital, Hines, Ill.* (**1,** 1938)

Pace, Donald M., Ph.D. Univ. of Nebraska College of Pharmacy, Dept. of Physiology and Pharmacology, Lincoln. *Assoc. Prof. of Physiology.* (**1,** 1944)

Pace, Nello, Ph.D. Univ. of California, Berkeley 4. *Assoc. Prof. of Physiology.* (**1,** 1947)

Pack, George T., M.D. 139 E. 36th St., New York City 16. *Prof. of Clinical Surgery, N. Y. Med. College; Attending Surgeon, Memorial Hospital.* (**1,** 1924)

Packchanian, Ardzroony, Ph.D. Univ. of Texas School of Medicine, Galveston. *Prof. of Bacteriology and Parasitology; Dir. of Lab. of Microbiology.* (**6,** 1943)

Page, Edouard, Ph.D. Laval Univ. Med. School. Dept. of Biochemistry, Quebec, Canada. *Prof. and Head, Dept. of Nutrition.* (**1,** 1947)

Page, Ernest W., M.D. Univ. of California Hospital, Dept. of Obstetrics and Gynecology, San Francisco 22. *Assoc. Prof.* (**1,** 1947)

Page, Irvine H., M.D. Cleveland Clinic Foundation, 2040 E. 93rd St., Cleveland 6, Ohio. *Dir. of Research.* (**1,** 1937; **2,** 1932)

Page, Robert G., M.D. Dept. of Medicine, Univ. of Chicago, Chicago 37, Ill. *Asst. Prof. of Medicine.* (**3,** 1951)

Painter, Elizabeth E., Ph.D. 438 N. Longcommon Rd., Riverside, Ill. *Consultant in Radiobiology, Argonne Natl. Lab.* (**1,** 1941)

Pait, Charles F., M.D. 10975 Wilshire Blvd., Los Angeles 24, Calif. *Dir., Virus Lab. of Los Angeles* (**6,** 1953)

Palmer, John W., Ph.D. Hyland Labs., 4534 Sunset Blvd., Los Angeles 27, Calif. (**6,** 1949)

P'An, S. Y., M.D. Chas. Pfizer and Co., Inc., Dept. of Pharmacology, 11 Bartlett St., Brooklyn 6, N. Y. *In Charge, Dept. of Pharmacology.* (**3,** 1941)

Pangborn, Mary C., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany, N. Y. *Assoc. Biochemist.* (**2,** 1941)

Papageorge, Evangeline, Ph.D. Emory Univ. Dept. of Biochemistry, Emory Univ., Georgia. *Assoc. Prof.* (**2,** 1950)

Pappenheimer, A. M., Jr., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Prof. of Microbiology.* (**2,** 1941; **6,** 1938)

Pappenheimer, Alwin M., M.D. 45 Holden St, Cambridge, Mass. *Prof. Emeritus of Pathology Columbia Univ. Research, Dept. Bacteriology and Immunology, Harvard Med. School* (**4,** 1922)

Pappenheimer, John R., Ph.D. Harvard Med. School, Boston, Mass. *Prof. of Physiology; Career Investigator, Am. Heart Assn.* (**1,** 1946)

Papper, E. M., M.D. Presbyterian Hospital, 622 W. 168th St., New York City. *Dir., Anesthesiology Service; Prof. of Anesthesiology, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1949)

Park, Edwards A., M.D. Johns Hopkins Hospital Baltimore, Md. *Prof. Emeritus of Pediatrics, Johns Hopkins Univ.* (**4,** 1923)

Parker, George H., Sc.D. Harvard Univ., Museum of Comparative Zoology, Cambridge, Mass. *Prof. Emeritus of Zoology.* (**1R,** 1909)

Parker, Robert F., M.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland, Ohio. *Assoc. Prof. of Microbiology and Medicine.* (**4,** 1942; **6,** 1935)

Parkins, William M., Ph.D. Univ. of Pennsylvania School of Medicine, Harrison Dept. of Research Surgery, Philadelphia 4. *Asst. Prof. of Surgical Research.* (**1,** 1939)

Parmer, Leo G., Ph.D., M.D. U.S. Food and Drug Admin., 201 Varick St., New York City 14. *Med. Offcer.* (**3,** 1951)

Parpart, Arthur K., Ph.D. Princeton Univ., Guyot Hall, Princeton, N. J. *Prof. of Physiology.* (**1,** 1937)

Parr, Leland W., Ph.D. George Washington Univ. School of Medicine, 1335 H St. N.W., Washington, D. C. *Prof. of Bacteriology.* (**4,** 1940)

Parrack, Horace O., Ph.D. Wright-Patterson Air Force Base, Aero-Med. Lab., Dayton, Ohio. *Chief, Bioacoustics Sec., Biophysics Branch.* (**1,** 1948)

Parrish, D. B., Ph.D. Kansas State College, Dept. of Chemistry, Manhattan. *Assoc. Prof.* (**5,** 1951)

Parsons, Helen T., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Home Economics.* (**2R,** 1929; **5R,** 1933)

Parsons, Robert J., M.D. Highland Alameda County Hospital, 2701 14th Ave., Oakland, Calif. *Pathologist; Dir. of Labs.* (**4,** 1939)

Paschkis, Karl E., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc.*

Prof. of Medicine and Asst. Prof. of Physiology. (**1,** 1942)

Patrick, Homer, Ph.D. Univ. of Tennessee College of Agriculture, Knoxville. *Nutritionist, Poultry Dept.* (**5,** 1953)

Patt, Harvey M., Ph.D. Argonne Natl. Lab., P.O. Box. 299, Lemont, Ill. *Sr. Physiologist.* (**1,** 1948)

Patterson, John L., Jr., M.D. Dept. of Medicine, Med. College of Virginia, Richmond 19. *Asst. Prof. of Medicine.* (**1,** 1951)

Patterson, Thos. L., Ph.D., Sc.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Research Prof. of Physiology; Prof. of Oro-Physiology and Dir. of Dental Research, Univ. of Detroit School of Dentistry.* (**1,** 1920)

Patterson, Wilbur I., Ph.D. Food and Drug Admin., Washington 25, D. C. *Chief, Organic Analytical Methods Branch, Div. of Food.* (**2,** 1948)

Patton, H. D., Ph.D., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (**1,** 1947)

Patton, Mary Brown, Ph.D. Ohio State Univ., School of Home Economics, Columbus 10. *Professor.* (**5,** 1953)

Paul, John R., M.D. Yale Univ. Med. School, 333 Cedar St., New Haven, Conn. *Prof. of Preventive Medicine.* (**4,** 1927; **6,** 1937)

Paul, Mary F., Ph.D. Eaton Labs., Inc., Norwich, N. Y. *Chief, Div. of Biology, The Norwich Pharmacal Co. and Eaton Labs., Inc.* (**2,** 1953)

Pearce, John Musser, M.D. 525 E. 68th St., New York City 21. *Prof. of Pathology, Cornell Univ. Med. College; Attending Pathologist, New York Hospital.* (**4,** 1942)

Pearce, Louise, M.D. Trevenna Farm, Belle Mead, N. J. *Assoc. Member in Pathology and Bacteriology, Rockefeller Inst. for Med. Research.* (**4,** 1925)

Pearcy, Frank, Ph.D., M.D. 2606 Oak Lawn Ave., Dallas, Tex. (**1,** 1928)

Pearlman, William H., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof., Biochemistry Dept.* (**2,** 1946)

Pearse, Herman E., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Surgery.* (**4,** 1932)

Pearson, Harold E., M.D., M.P.H. Los Angeles County Hospital, Los Angeles 33. *Head Med. Microbiologist; Prof. Public Health, Univ. of Southern California Med. School.* (**6,** 1948)

Pearson, Olof H., M.D. Memorial Hospital, 444 E. 68th St., New York City 21. *Assoc. Prof. of Medicine, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1953)

Pearson, P. B., Ph.D. U. S. Atomic Energy Commission, Div. of Biology and Medicine, Washington 25, D. C. *Chief of Biology Branch.* (**2,** 1944; **5,** 1940)

Pease, Marshall C., Jr., M.D. Branchville Rd., R.F.D. 4, Ridgefield, Conn. *Historian of American Acad. of Pediatrics.* (**6,** 1920)

Peck, Harold M., M.D. Sharp and Dohme, Inc., West Point, Pa. *Dir. of Research in Pathology.* (**3,** 1953)

Peck, Robert L., Ph.D. 939 Madison Ave., Plainfield, N. J. *Technical Asst. to Dir. of Organic and Biochemical Research, Merck and Co., Inc.* (**2,** 1947)

Pecora, Louis J., Ph.D. 1014 Broadway, Cincinnati 2, Ohio. *Chief, Pulmonary Lab., USPH, Div. of Occupational Health.* (**1,** 1952)

Peiss, Clarence N., Ph.D. St. Louis Univ., School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Asst. Prof. of Physiology.* (**1,** 1952)

Pelikan, Edward W., M.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Instr. in Pharmacology.* (**3,** 1952)

Penfield, Wilder G., M.D., D.Sc. McGill Univ., Montreal, Quebec, Canada. *Prof. of Neurology and Neurosurgery.* (**1,** 1932)

Penneys, Raymond, M.D. Univ. of Pennsylvania Hospital, Peripheral Vascular Sec., Philadelphia 4. *Instr. in Medicine, Univ. of Pennsylvania School of Medicine.* (**1,** 1951)

Penrod, Kenneth E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Assoc. Prof. of Physiology.* (**1,** 1946)

Peoples, S. Anderson, M.D. Univ. of California, School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Prof. of Pharmacology and Toxicology.* (**3,** 1937)

Perkins, John F., Jr., M.D. 5621 S. Kenwood Ave., Chicago 37, Ill. *Assoc. Prof. of Physiology, Univ. of Chicago.* (**1,** 1950)

Perlman, Ely, M.D. 118 Crescent Lane, Roslyn Heights, L. I., N. Y. *Research Asst., Mt. Sinai Hospital.* (**6,** 1944)

Perlmann, Gertrude Erika, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York Citv 21. *Assoc.* (**2,** 1951)

Permar, Howard H., M.D. Pathologic Labs., Mercy Hospital, Pittsburgh, Pa. *Dir. of Labs.* (**4,** 1925)

Petermann, Mary L., Ph.D. 444 E. 68th St., New York City 21. *Assoc. Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1947)

Peters, John P., M.D. 789 Howard Ave., New Haven 11, Conn. *Prof. of Medicine, Yale Univ. Med. School.* (**2R,** 1922)

Peters, Lawrence, Ph.D., M.D. Tulane Univ. Med. School, Dept. of Pharmacology, New Orleans 12, La. *Prof. and Head of Dept.* (**3,** 1946)

Petersen, William E., Ph.D. Univ. of Minnesota

Div. of Dairy Husbandry, St. Paul 1. *Professor.* (**1,** 1947)

Peterson, Lysle H., M.D. Univ. of Pennsylvania Med. School, Dept. of Physiology, Philadelphia 4. *Asst. Prof. of Physiology and Physiological Surgery.* (**1,** 1950)

Peterson, William H., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2R,** 1919; **5R,** 1936)

Pett, L. B., M.D., Ph.D. Dept. of Natl. Health and Welfare, Ottawa, Ontario, Canada. *Dir. of Nutrition.* (**5R,** 1945)

Pfaffmann, Carl, Ph.D. Brown Univ., Providence 12, R. I. *Prof. of Psychology.* (**1,** 1953)

Pfeiffer, Carl C., Ph.D., M.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1938)

Pfiffner, Joseph J., Ph.D. Parke, Davis & Co., Research Labs., Detroit 32, Mich. *Research Chemist.* (**1,** 1931; **2,** 1931; **5,** 1946)

Phatak, Nilkanth M., Ph.D. Univ. of Oregon, School of Dentistry, Portland. *Assoc. Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Philips, Frederick S., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th Street, New York City 21. *Assoc. Member.* (**3,** 1947)

Phillips, Paul H., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2,** 1940; **5,** 1938)

Phillips, Robert Allan, M.D. Dept. of Navy, Bureau of Medicine and Surgery, Washington 25, D. C. *Head, General Medicine and Surgery Branch, Research Div.* (**1,** 1938)

Pick, Ernst Peter, M.D. 19 E. 98th St., New York City. (**3,** 1940)

Piel, Carolyn Forman, M.D. 2150 Hyde St., Apt. 4, San Francisco 9, Calif. (**4,** 1950)

Pierce, Harold B., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Bicchemistry.* (**2,** 1929; **5,** 1933)

Pierce, Harold Fisher, Ph.D., M.D. 583 Park Rd., West Hartford 7, Conn. *Med. Dir., State Welfare Dept., Hartford.* (**1,** 1928)

Pierce, Ira H., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1933)

Pigman, William W., Ph.D. Univ. of Alabama, Med.-Dent. Schools, Biochemistry Dept., Birmingham. *Assoc. Prof.* (**2,** 1950)

Pilcher, J. Douglas, M.D. City Hospital, Scranton Rd., Cleveland, Ohio. *Retired Assoc. Prof. of Pediatrics, Western Reserve Univ. School of Medicine* (**3R,** 1911)

Pillemer, Louis, Ph.D. Western Reserve Univ., Inst. of Pathology, 2085 Adelbert Rd., Cleveland, Ohio. *Prof. of Biochemistry.* (**2,** 1950; **6,** 1942)

Pincus, Gregory, Sc.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. *Dir. of Labs.* (**1,** 1935)

Pincus, I. J., D.Sc. Jefferson Med. College, Philadelphia, Pa. *Assoc. Prof. of Physiology.* (**1,** 1948)

Pinkerton, Henry, M.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Dir., Dept. of Pathology.* (**4,** 1931)

Pinkston, James O., Ph.D. State Univ. Med. Center at New York City, College of Medicine, Brooklyn. *Asst. Dean and Lecturer in Physiology.* (**1,** 1936; **3,** 1939)

Pinson, Ernest A., Ph.D. 49 N. Hancock St., Lexington, Mass. *Chief, Radiobiology Lab., USAF Cambridge Research Center.* (**1,** 1943)

Pirani, Conrad L., M.D. Univ. of Illinois, College of Medicine, Dept. of Pathology, 1853 W. Polk St., Chicago 12. *Assoc. Prof.* (**4,** 1951)

Pittman, Martha S., Ph.D. 1909 Poyntz, Manhattan, Kan. (**5,** 1933)

Pitts, Grover C., Ph.D. Univ. of Virginia, Physiological Lab., Charlottesville. *Asst. Prof.* (**1,** 1951)

Pitts, Robert F., Ph.D., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. and Head of Dept. of Physiology and Biophysics.* (**1,** 1934)

Platner, Wesley S., Ph.D. Univ. of Missouri School of Medicine, 107 McAlester Hall, Columbia. *Assoc. Prof. of Physiology.* (**1,** 1951)

Plaut, Gerhard W. E., Ph.D. Univ. of Wisconsin, Inst. for Enzyme Research, Madison 6. *Asst. Prof.* (**2,** 1952)

Plummer, Albert J., M.D., Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir., Pharmacological Research.* (**3,** 1950)

Pollack, Abou D., Camp Detrick, Frederick, Md. (**4,** 1953)

Pollack, Herbert, Ph.D., M.D. 70 E. 77th St., New York City 21. *Assoc. Physician and Chief of Metabolism Clinics, Mt. Sinai Hospital.* (**1,** 1933; **5,** 1935)

Pomerat, Charles Marc, Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Cytology.* (**1,** 1944)

Pommerenke, W. T., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N.Y. *Assoc. Prof. of Obstetrics and Gynecology.* (**1,** 1947)

Pond, Samuel E., Ph.D. Hillyer College, Div. of Science, Hartford, Conn. *Consultant (Coordinator); Consulting Engineer, P. and W. A. Div., United Aircraft Corp.* (**1,** 1924)

Ponder, Eric, M.D., Sc.D. Nassau Hospital, Mineola, Long Island, N. Y. *Dir., Research Labs.* (**1,** 1931)

Pope, Alfred, M.D. McLean Hospital, Waverley 79, Mass. *Assoc. in Neuropathology, McLean Hospital; Asst. Prof. of Neuropathology, Harvard Med. School.* (**2,** 1953)

Poppen, John R., M.D. 9000 Amestoy Ave., Northridge, Calif. *Capt. (MC) USN Retired; Consultant, Douglas Aircraft Co.* (**1,** 1948)

Popper, Hans, Ph.D., M.D. 629 S. Wood St., Chicago 12, Ill. *Dir. of Dept. of Pathology and Scientific Dir. of Hektoen Inst. for Med. Research, Cook Co. Hosp.* (**4,** 1942)

Porter, Eugene L., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Physiology.* (**1,** 1913)

Porter, J. R., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology, Chairman of Dept.* (**6,** 1950)

Porter, John W., Ph.D. General Electric Co., Biology Sec., Radiological Sciences Dept., Richland, Wash. *Biological Scientist.* (**2,** 1953)

Porter, Thelma, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. and Chairman of Dept. of Home Economics.* (**5,** 1944)

Post, Robert Lickely, M.D. 6310 Vanderbilt Med. School, Nashville 4, Tenn. *Asst. Prof. of Physiology.* (**1,** 1950)

Posternak, Jean M., M.D. Univ. of Geneva Med. School, Geneva, Switzerland. *Prof. of Physiology.* (**1,** 1951)

Poth, Edgar J., M.D., Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Surgery.* (**1,** 1946)

Potter, Truman S., M.D. 117 Northampton Rd., Amherst, Mass. *Independent Research Worker.* (**6,** 1939)

Potter, Van R., Ph.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison. *Prof. of Oncology.* (**2,** 1941)

Powell, Horace M., Sc.D. 5565 Washington Blvd., Indianapolis, Ind. *Research Advisor, Eli Lilly & Co.* (**6,** 1934)

Power, Marschelle H., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1932)

Pratt, Frederick H., M.D. Harvard Apparatus Co., Inc. Dover, Mass. *Vice Pres.; Prof. Emeritus of Physiology, Boston Univ. Med. School.* (**1R,** 1919)

Pratt, Joseph H., M.D., Sc.D. New England Med. Center, 25 Bennet St., Boston, Mass. *Physician-in-Chief, Joseph H. Pratt Diagnostic Hospital; Prof. Emeritus of Medicine, Tufts Med. School.* (**1,** 1910; **3,** 1910; **4,** 1927)

Preisler, Paul W., Ph.D., Washington Univ. School of Medicine, 660 S. Kingshighway Blvd., St. Louis 10, Mo. *Research Assoc., Biochemistry.* (**2,** 1931)

Pressman, David, Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 East 68 St., New York City 21. *Head, Sec. of Immunochemistry; Assoc. Prof. of Biochemistry, Cornell Univ. Med. College.* (**6,** 1949)

Pribram, Karl H., M.D. Inst. of Living, Burlingame Research Lab., Hartford, Conn. *Research Assoc.; Dir. of Lab. of Neurophysiology; Research Asst., Yale Univ., Depts. of Physiology and Psychology.* (**1,** 1951)

Price, Clifford W., Bio-Romo Drug Co., Inc., Baltimore, Md. *Technical Dir.* (**6,** 1946)

Price, Vincent E., M.D. 4615 Edgefield Rd., Bethesda 14, Md. *Head, Enzymes and Metabolism Sec., Lab. of Biochemistry, Natl. Cancer Inst.* (**2,** 1953)

Prinzmetal, Myron, M.D. 810 N. Roxbury Dr., Beverly Hills, Calif. *Sr. Attending Physician and Dir. of Cardiac Research Program, Cedars of Lebanon Hospital, Los Angeles; Assoc. Clin. Prof. of Medicine, UCLA.* (**3,** 1941)

Prosser, C. Ladd, Ph.D. Univ. of Illinois, Natural History Bldg., Urbana. (**1,** 1935)

Puestow, Charles B., M.D., Ph.D. 25 E. Washington St., Chicago 2, Ill. *Asst. Prof. of Surgery, Univ. of Ill. College of Medicine.* (**1,** 1934)

Pugsley, L. I., Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Lab., Ottawa, Ontario, Canada. *Chief of Lab. Service.* (**2,** 1937)

Putnam, Frank W., Ph.D. Univ. of Chicago, Dept. of Biochemistry, 947 E. 58th St., Chicago 37, Ill. *Assoc. Prof.* (**2,** 1947)

Quackenbush, Forrest W., Ph.D. R-2, Brookston, Ind. *Prof. and Head of Dept. of Biochemistry, Purdue Univ.; State Chemist.* (**2,** 1946)

Quaife, Mary L., Ph.D. Distillation Products Ind., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Sr. Research Chemist, Dept. of Biochemistry.* (**2,** 1948; **5,** 1951)

Quastel, J. H., D.Sc., Ph.D. Research Inst., Montreal General Hosp., 3619 University St. Montreal, Quebec, Canada. *Dir., Research Inst.; Prof. of Biochemistry, McGill Univ.* (**2,** 1948)

Queen, Frank B., M.D. Univ. of Oregon School of Medicine, 3181 S.W. Sam Jackson Park Rd., Portland. *Prof. of Pathology.* (**4,** 1941)

Quick, Armand J., M.D., Ph.D. Marquette Med. School, 561 N. 15th St., Milwaukee 3, Wis. *Prof. and Dir. of Dept. of Biochemistry.* (**2,** 1932; **3,** 1937)

Quigley, J. P., Ph.D. Univ. of Tennessee, Memphis 3. *Prof. and Chief of Div. of Physiology.* (**1,** 1929; **3,** 1945)

Quilligan, J. J., Jr., M.D. Southwestern Med. School of Univ. of Texas, 2211 Oak Lawn, Dallas, Texas. *Assoc. Prof. of Pediatrics.* (**6,** 1950)

Quimby, Freeman Henry, Ph.D. Office of Naval Research, Code 441, Navy Dept., Washington 25, D. C. *Head, Physiology Branch.* (**1,** 1950)

Quinn, Edmond John, Ph.D. 106 N. Lee Ave.,

Rockville Center, Long Island, N. Y. (**2R,** 1927; **5R,** 1933).

Raab, Wilhelm, M.D. Univ. of Vermont College of Medicine, Div. of Exper. Medicine, Burlington. *Professor.* (**1,** 1949)

Rachele, Julian R., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Rackemann, Francis M., M.D. 263 Beacon St., Boston, Mass. *Physician, Massachusetts General Hospital* (**6,** 1923)

Racker, Efraim, M.D. Yale Univ., School of Medicine, 333 Cedar St., New Haven, Conn. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Radomski, Jack L., Ph.D. School of Medicine, Univ. of Miami, Coral Gables 34, Fla. *Asst. Prof. of Pharmacology.* (**3,** 1953)

Raffel, Sidney, Sc.D., M.D. Stanford Univ., Dept. of Bacteriology and Exper. Pathology, Stanford, Calif. *Exec. Head.* (**6,** 1938)

Ragan, Charles, M.D. Columbia Univ., College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1952)

Rahn, Hermann, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Physiology.* (**1,** 1944)

Rake, Geoffrey W., M.B. E. R. Squibb & Sons, 745 Fifth Ave., New York City 22. *Coordinator of Scientific Affairs.* (**6,** 1939)

Rakestraw, Norris W., Ph.D. Univ. of California, Scripps Inst. of Oceanography, La Jolla. *Prof. of Chemistry.* (**2,** 1925)

Rakieten, Nathan, Ph.D. South Shore Analytical and Research Lab., Box 47, Islip, L. I., N. Y. *Pharmacologist.* (**1,** 1941)

Ralli, Elaine P., M.D. 477 First Ave., New York City. *Assoc. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1934; **5,** 1933)

Ralston, H. J., Ph.D. College of Physicians and Surgeons, 344 14th St., San Francisco 3, Calif. *Assoc. Prof. of Physiology.* (**1,** 1947)

Rammelkamp, Charles H., Jr., M.D. Western Reserve Univ., Dept. of Preventive Medicine, Cleveland 6, Ohio. *Prof. of Medicine; Assoc. Prof. of Preventive Medicine.* (**6,** 1943)

Ramsey, Robert Weberg, Ph.D. Med. College of Virginia, Richmond. *Prof. of Physiology.* (**1,** 1939)

Randall, Charles C., M.D. Vanderbilt Univ. School of Medicine, Dept. of Pathology, Nashville 5, Tenn. *Assoc. Prof. of Bacteriology and Dir., Div. of Bacteriology.* (**4,** 1952)

Randall, Lowell O., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. Sr. *Pharmacologist.* (**2,** 1939; **3,** 1950)

Randall, Walter C., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1943)

Randall, William A., Ph.D. Food and Drug Admin., Washington 25, D. C. *Chief, Research Branch, Div. of Antibiotics.* (**6,** 1946)

Rane, Leo, Ph.D. 571 Hammond St., Chestnut Hill 67, Mass. (**6,** 1942)

Rantz, Lowell A., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Assoc. Prof. of Medicine.* (**3,** 1946)

Rapoport, S., M.D., Ph.D. Humboldt Univ., Physiologisch-chemisches Inst., Berlin N. 4, Germany. *Director.* (**2,** 1941)

Rapport, David, M.D. 136 Harrison Ave., Boston, Mass. *Prof. of Physiology, Tufts College Med. School.* (**1,** 1922)

Rapport, Maurice M., Ph.D. Sloan-Kettering Inst. for Cancer Research, N. Y. State Dept. of Health, 444 E. 68th St., New York City 21. *Assoc. Research Scientist.* (**2,** 1950)

Rashkind, William J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Physiology.* (**1,** 1952)

Raska, Sigwin, Ph.D. Univ. of Illinois Hospitals, 1819 W. Polk St., Chicago 12. *Intern.* (**1,** 1947)

Rasmussen, A. F., Ph.D., M.D. Univ. of California at Los Angeles, Med. School, Los Angeles 24. *Prof. of Infectious Diseases (Virology).* (**6,** 1949)

Rasmussen, A. T., Ph.D. 4636 Indianola Way, La Cañada, Calif. *Prof. Emeritus of Anatomy, Univ. of Minnesota.* (**1,** 1919)

Ratcliffe, Herbert L., D.Sc. Univ. of Pennsylvania, Dept. of Pathology, Philadelphia 4. *Prof. of Comparative Pathology; Pathologist, Zoological Society of Philadelphia.* (**4,** 1950)

Rather, Lelland J., M.D. Stanford Univ. School of Medicine, Dept. of Pathology, 2398 Sacramento St. San Francisco, Calif. *Assoc. Prof.* (**4,** 1951)

Ratner, Bret, M.D. 50 E. 78th St., New York City. *Prof. of Pediatrics and Immunology, New York Med. College.* (**4,** 1940; **6,** 1928)

Ratner, Sarah, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Pharmacology.* (**2,** 1944)

Rau, G. Carl, Ph.D. 110 Meadow Lane, Columbia, Mo. *Assoc. Prof. of Physiology, Univ. of Missouri Med. School.* (**1,** 1951)

Raulston, B. O., M.D. 200 S. Hudson Ave., Los Angeles, Calif. *Prof. of Medicine and Dir. of Clin. Teaching and Assoc. Dean, Univ. of Southern California School of Medicine.* (**3R,** 1942)

Ravdin, I. S., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *John Rhea Barton Prof. of Surgery; Dir., Harrison Dept. of Surgical Research.* (**1,** 1930, **4,** 1930)

Rawson, Rulon W., M.D. Memorial Center for Cancer and Allied Diseases, 444 E. 68th St., New York City. *Chief, General Medicine; Chief, Dept. of Clin. Investigation, Sloan-Kettering Inst.* (**1,** 1947)

Raymond, Albert L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Vice Pres. in charge of Research and Development.* (**2,** 1932)

Rebuck, John W., M.D., Ph.D. Henry Ford Hospital, Dept. of Labs., Detroit 2, Mich. *Assoc. in Pathology.* (**4,** 1950)

Redfield, Alfred C., Ph.D. Woods Hole, Mass. *Prof. of Physiology, Harvard Univ.* (**1,** 1919)

Reed, Carlos I., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Physiology.* (**1,** 1923)

Reed, Emerson A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Assoc. Prof. of Physiology.* (**1,** 1948)

Reed, Lester J., Ph.D. Univ. of Texas, Austin 12. *Asst. Prof. of Chemistry.* (**2,** 1952)

Reese, John D., M.D. Beverly Hills Clinic, Beverly Hills, Calif. *Pathologist.* (**4,** 1949)

Rehm, Warren S., Jr., Ph.D., M.D. Univ. of Louisville School of Medicine, Louisville, Ky. *Prof. of Physiology.* (**1,** 1945)

Reid, James C., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Sr. Chemist.* (**2,** 1952)

Reid, Marion Adelaide, Ph.D. New Jersey College for Women, New Brunswick. *Asst. Prof., Dept. of Zoology.* (**1,** 1941)

Reid, Mary E., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cytologist.* (**5,** 1947)

Reilly, Joseph, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof. of Pharmacology.* (**3,** 1952)

Reimann, Hobart A., M.D. American Univ., Beirut, Lebanon. *Visiting Prof. of Medicine.* (**4,** 1933)

Reimann, Stanley P., M.D., Sc.D. 703 W. Phil-Ellena St., Mount Airy, Philadelphia, Pa. *Dir. of Research Inst. of Lankenau Hospital.* (**1,** 1921; **4,** 1924)

Reinecke, Roger M., Ph.D., M.D. Univ. of Puerto Rico, School of Medicine, San Juan. *Prof. of Physiology; Head of Dept. of Physiology and Pharmacology.* (**1,** 1947)

Reineke, E. P., Ph.D. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Professor.* (**1,** 1950)

Reiner, John M., Ph.D. Dept. of Biochemistry, College of Physicians and Surgeons of Columbia Univ., New York City. *Sr. Enzyme Chemist and Asst. Prof. of Biochemistry.* (**1,** 1947)

Reiner, Laszlo, M.D., Ph.D. Wallace and Tiernan Inc., 25 Main St., Belleville, N. J. *Dir., Pharmaceutical Research.* (**2,** 1942; **6,** 1933)

Reinhard, John F., Ph.D. Warner Inst. for Therapeutic Research, 113 West 18th St., New York City 11. *Dir. of Pharmacologic Research.* (**3,** 1952)

Reinhardt, William O., M.D. Univ. of California, Berkeley 4. *Prof. of Anatomy.* (**1,** 1950)

Reinhold, John G., Ph.D. Univ. of Pennsylvania Hospital, 711 Maloney Bldg., 36th and Spruce Sts., Philadelphia 4, Pa. *Assoc. Prof. of Physiological Chemistry and Medicine.* (**2,** 1936)

Reiser, Raymond, Ph.D. Texas Agricultural Exper. Station, Dept. of Biochemistry and Nutrition, College Station. *Assoc. Prof., A & M College of Texas.* (**2,** 1953)

Reithel, Francis J., Ph.D. Univ. of Oregon, Dept. of Chemistry, Eugene. *Assoc. Prof. of Chemistry.* (**2,** 1953)

Rekers, Paul E., M.D. Inst. for Med. Research, Cedars of Lebanon Hospital, 4751 Fountain Ave., Los Angeles 29, Calif. *Research Assoc.* (**4,** 1950)

Remington, John W., Ph.D. Med. College of Georgia, Augusta. *Research Professor.* (**1,** 1943)

Remington, Roe E., Ph.D., D.Sc. 110 Kentucky Ave., C6, Hendersonville, N. C. (**2R,** 1930; **5R,** 1934)

Renfrew, Alice G., Ph.D. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Medicinal Chemistry.* (**2,** 1939)

Rennick, Barbara R., M.D. State Univ. of New York Med. Center at Syracuse, Syracuse 10. *Inst. in Physiology.* (**3,** 1952)

Reynolds, May S., Ph.D. Univ. of Wisconsin, School of Home Economics, Dept. of Foods and Nutrition, Madison. *Prof.* (**5,** 1951)

Reynolds, Orr E., Ph.D. Office of Naval Research, Washington, D. C. *Dir., Biological Sciences Div.* (**1,** 1948)

Reynolds, Samuel R. M., Ph.D., Sc.D. 4028 Deepwood Rd., Baltimore 18, Md. *Staff Member and Physiologist, Carnegie Inst. of Washington Dept. of Embryology.* (**1,** 1932)

Reznikoff, Paul, M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Clin. Medicine, Cornell Univ. Med. College.* (**1,** 1927)

Rhines, Ruth, Ph.D., M.D. 321 Newman Ct., Lake Bluff, Ill. (**1,** 1950)

Rhoads, Cornelius Packard, M.D. Memorial Center, 410 E. 68th St., New York City. *Dir.; Prof. of Pathology, Cornell Univ. Med. College.* (**4,** 1930)

Rhoads, Jonathan E., M.D., D.Sc. 131 W. Walnut Lane, Philadelphia 44, Pa. *Prof. of Surgery, Univ. of Pa. Med. School; Chief, Surgical Div. II, Univ. Hospital.* (**1,** 1946)

Rice, Christine E., Ph.D. Animal Diseases Research Inst., Canadian Dept. of Agriculture, Hull, Quebec, Canada. *Agricultural Research Officer.* (**6,** 1938)

Rice, Eldon E., Ph.D. 9152 West 124th St., Palos Park, Ill. *Research Chemist, Swift and Co.* (**5,** 1951)

Rice, Harold V., Ph.D. Univ. of Alberta, Edmonton, Alberta, Canada. *Prof. of Physiology.* (**1,** 1948)

Rice, James C., Ph.D. Univ. of Mississippi, P. O. Box 475, University. *Prof. of Pharmacology; Chairman of Dept.* (**3,** 1941)

Rich, Arnold Rice, M.D. Johns Hopkins Hospital, Baltimore, Md. *Baxley Prof. of Pathology, Johns Hopkins Univ.* (**4,** 1924)

Richards, Alfred N., Ph.D., M.D. 737 Rugby Rd., Bryn Mawr, Pa. *Prof. Emeritus of Pharmacology, Univ. of Pennsylvania.* (**1R,** 1900; **2R,** 1906; **3R,** 1909)

Richards, Dickinson W., Jr., M.D. Bellevue Hospital, First Med. Div., 462 First Ave., New York City 16. *Dir. and Visiting Physician; Lambert Prof. of Medicine, Columbia Univ.* (**1,** 1953)

Richards, Oscar W., Ph.D. American Optical Co., Research Center, Southbridge, Mass. *Research Supervisor for Biology.* (**1,** 1934)

Richards, Richard Kohn, M.D. Abbott Labs., North Chicago, Ill. *Head, Dept. of Pharmacology.* (**1,** 1938; **3,** 1947)

Richardson, Alfred W., Ph.D. Indiana Univ., Medical Bldg., Bloomington. *Asst. Prof. of Physiology.* (**1,** 1952)

Richardson, Arthur P., M.D. Emory Univ. School of Medicine, Emory University, Ga. *Dir. of Basic Sciences; Prof. of Pharmacology.* (**3,** 1939)

Richardson, James A., Ph.D. Med. College of South Carolina, Dept. of Pharmacology, Charleston 16. *Asst. Prof.* (**3,** 1951)

Richardson, Luther R., Ph.D. P. O. Box 102, College Station, Tex. *Prof. of Biochemistry and Nutrition, Texas A & M College.* (**5,** 1942)

Richert, Dan A., Ph.D. State Univ. Med. Center at Syracuse Univ., Dept. of Biochemistry, 766 Irving Ave., Syracuse 10, N. Y. *Assoc. Prof.* (**2,** 1951)

Richter, Curt P., Ph.D. Phipps Psychiatric Clinic, Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psycho-biology, Johns Hopkins Univ.* (**1,** 1924)

Richter, Maurice N., M.D. 303 E. 20th St., New York City. *Prof. of Pathology, Bellevue Med. Center; Dir. Dept. of Pathology, Univ. Hospital.* (**4,** 1931)

Ricketts, Henry T., M.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Assoc. Prof. of Medicine.* (**1,** 1940)

Riddle, Oscar, Ph.D. Route 4, Plant City, Fla. (**1R,** 1919)

Ridley, Roger W., M.D. 102–110 Second Ave., Southwest, Rochester, Minn. *Consultant in Anesthesiology, Mayo Clinic.* (**3,** 1953)

Riegel, Byron, Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Chemical Research.* (**2,** 1942)

Riegel, Cecilia, Ph.D. Lankenau Hospital, Biochemistry Lab., City Line and Lancaster Ave., Pa. *Biochemist.* (**2,** 1938)

Rigdon, R. H., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Pathology; Dir., Lab. of Experimental Pathology.* (**4,** 1941)

Riggs, Douglas S., M.D. Harvard Med. School, Boston, Mass. *Asst. in Pharmacology.* (**3,** 1948)

Riggs, Lloyd K., Ph.D. Box 101, Oakdale, L. I., N. Y. *Consultant, Biochemistry, Nutrition, Foods and Feeds.* (**2,** 1929)

Riggs, Lorrin A., Ph.D. Brown Univ., Providence 12, R. I. *Prof. of Psychology.* (**1,** 1953)

Riker, Walter F., Jr., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Riley, Richard F., Ph.D. P. O. Box 4164, West Los Angeles 24, Calif. *Asst. Clin. Prof. of Radiology, Univ. of California.* (**3,** 1950)

Riley, Richard L., M.D. 1901 Dixon Rd., Baltimore 9, Md. *Assoc. Prof. of Environmental Medicine, Johns Hopkins Univ.* (**1,** 1948)

Rinehart, James F., M.D. Univ. of California Med. School, Parnassus and Third Aves., San Francisco. *Prof. of Pathology and Chairman of Dept.* (**4,** 1933)

Ring, Gordon C., Ph.D. Univ. of Miami School of Medicine, Dept. of Physiology, Coral Gables 34, Fla. *Chairman of Dept.* (**1,** 1933)

Rinzler, Seymour H., M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City 21. *Instructor.* (**3,** 1951)

Rioch, David M., M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Technical Dir., Neuropsychiatry Div.* (**1,** 1931)

Rittenberg, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2,** 1939)

Ritzman, E. G., A.M. Univ. of New Hampshire, Durham. *Research Prof.* (**5R,** 1933)

Rivers, T. M., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Director.* (**4,** 1925; **6,** 1921)

Robb, Jane Sands, Sc.D., M.D. State Univ. of New York at Syracuse, College of Medicine, Syracuse. *Assoc. Prof. of Pharmacology.* (**1,** 1924; **3,** 1952)

Robbins, Benjamin Howard, M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1936)

Robbins, Frederick C., M.D. 2469 Wellington Rd., Cleveland Heights, Ohio. *Prof. of Pediatrics City of Cleveland and Western Reserve Univ.* (**6,** 1952)

Robbins, Kenneth C., Ph.D. 5648 N. Talman Ave., Chicago, Ill. *Biochemist, Armour & Co. Research Div.* (**6,** 1950)

Robbins, Mary L., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W.,

Washington 5, D. C. *Assoc. Prof. of Bacteriology.* (**6,** 1946)

Robbins, Stanley L., Harvard Med. School, Mallory Inst. of Pathology, Boston City Hospital, Boston 18, Mass. *Asst. Pathologist and Instr. in Pathology, Mallory Inst.; Asst. Prof. of Pathology, Boston Univ. and Tufts Med. School.* (**4,** 1952)

Roberts, Eugene, Ph.D. Washington Univ. Med. School, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc. in Cancer.* (**2,** 1950)

Roberts, Joseph T., M.D., Ph.D. Veterans Admin. Hospital, Buffalo, N. Y. *Chief of Cardiology Sec.* (**1,** 1947)

Roberts, Lydia J., Ph.D. Univ. of Puerto Rico, Rio Piedras, P. R. *Prof. and Chairman of Dept. of Home Economics.* (**5,** 1933)

Roberts, Sidney, Ph.D. Univ. of California Med. School, Los Angeles 24. *Assoc. Prof. of Physiological Chemistry.* (**1,** 1946; **2,** 1950)

Robertson, Elizabeth Chant, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Clin. Teacher, Dept. of Pediatrics; Assoc. Physician, Hospital for Sick Children.* (**5,** 1939)

Robertson, Oswald H., M.D. Stanford Univ., Dept. of Biology, Palo Alto, Calif. *Prof. of Medicine.* (**4R,** 1932)

Robertson, William v. B., Ph.D. Univ. of Vermont, College of Medicine, Dept. of Biochemistry, Burlington. *Professor.* (**2,** 1952)

Robinson, Charles Summers, Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Biochemistry.* (**2R,** 1925)

Robinson, Elliott S., M.D. Ph.D. 279 East Side Drive, Concord, N. H. *Asst. Dir., Preventive Medicine Div., Office of the Surgeon Gen., Washington, D. C.* (**6,** 1935)

Robinson, G. Canby, M.D. 4712 Keswick Rd., Baltimore, Md. *Exec. Sec., Maryland Tuberculosis Assoc.* (**1R,** 1912)

Robinson, Harry J., Ph.D., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Assoc. Dir.* (**3,** 1946)

Robinson, Herbert E., Ph.D. Swift and Co., Research Labs., Union Stock Yards, Chicago 9, Ill. *Dir. of Labs.* (**5,** 1947)

Robinson, Howard W., Ph.D. Temple Univ. Med. School, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Physiological Chemistry.* (**2,** 1929)

Robinson, Sid, Ph.D. Indiana Univ. Med. School, Bloomington. *Prof. of Physiology.* (**1,** 1941)

Robinson, True W., Ph.D. Med. College of Alabama, Dept. of Physiology, Birmingham 5. (**1,** 1948)

Roblin, Richard O., Jr., Ph.D. 1937 W. Main St., Stamford, Conn. *Dir. of Chemotherapy Div., American Cyanamid Co.* (**2,** 1946)

Robscheit-Robbins, F.S., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. in Pathology.* (**1,** 1925; **4,** 1930)

Rocha e Silva, Mauricio, M.D. Instituto Biologico, Sao Paulo, Brazil. *Chief, Biochemistry and Pharmacology Section.* (**3,** 1952)

Rockland, Louis B., Ph.D. 263 S. Chester Ave., Pasadena 5, Calif. *Chemist, USDA, Fruit and Vegetable Chemistry Lab., Bur. of Agricultural and Industrial Chemistry.* (**2,** 1953)

Rodahl, Kaare, M.D. Oslo Univ., Inst. of Physiology, Karl Johans gate 47, Oslo, Norway. *Fellow, Oslo Univ. and Norwegian Polar Inst.* (**1,** 1952)

Rodbard, Simon, Ph.D. Michael Reese Hospital, Cardiovascular Dept., 29th and Ellis Aves., Chicago, Ill. *Asst. Dir., Cardiovascular Research.* (**1,** 1942)

Roderuck, Charlotte E., Ph.D. Iowa State College, Dept. of Foods and Nutrition, Ames. *Assoc. Prof.* (**5,** 1951)

Roe, Joseph Hyram, Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. of Biochemistry.* (**2,** 1927; **5,** 1933)

Roeder, Kenneth D., M.A. Tufts College, Medford, Mass. *Prof. of Physiology.* (**1,** 1942)

Roepke, Martin Henry, Ph.D. Univ. of Minnesota, Univ. Farm, St. Paul. *Prof. of Veterinary Medicine.* (**3,** 1937)

Rogers, Fred T., Ph.D., M.D. Dallas Med. and Surgical Clinic, 4105 Live Oak St., Dallas 1, Tex. (**1,** 1917)

Rogers, Stanfield, M.D. Duke Univ. Med. School, Durham, N. C. *Asst. Prof.* (**4,** 1952)

Rogoff, Julius M., M.D., Sc.D. Central Ave. and S. Beach Dr., Belle Island, Rowayton, Conn. (**1R,** 1916; **3R,** 1916)

Roine, Paavo K., Ph.D. Viikin Koetila, Malmio, Finland. *Prof. of Nutritional Chemistry, Helsinki Univ.* (**5,** 1950)

Rolfe, Daniel Thomas, M.D. Meharry Med. College, Nashville 8, Tenn. *Chairman, Dept. of Physiology and Pharmacology; Prof. of Physiology.* (**1,** 1950)

Roll, Paul M., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Assoc. Member.* (**2,** 1950)

Romanoff, Alexis L., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Chemical Embryology.* (**1,** 1953)

Ronzoni, Ethel, Ph.D. Washington Univ. Med. School, 640 S. Kingshighway, St. Louis 10, Mo. *Asst. Prof. of Biological Chemistry, Neuropsychiatry Dept.* (**2,** 1923)

Roos, Albert, M.D. Washington Univ. School of Medicine, Dept. of Physiology, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Instr. in Physiology and Surgery.* (**1,** 1949)

Root, Howard F., M.D. Joslin Clinic, 81 Bay

State Rd., Boston, Mass. *Assoc. in Medicine, Harvard Med. School.* (**5,** 1933)

Root, Mary Avery, Ph.D. Eli Lilly and Co., Research Labs., Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1952)

Root, Raymond W., Ph.D. College of the City of New York, 139th St. and Convent Ave., New York City. *Assoc. Prof. of Biology; Head of Div. of Physiology.* (**1,** 1949)

Root, Walter S., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1932)

Rosahn, Paul D., M.D. 175 Vine St., New Britain, Conn. *Pathologist, New Britain General Hospital; Assoc. Clin. Prof. of Pathology, Yale Univ. School of Medicine.* (**4,** 1934)

Rose, Catharine S., Ph.D. Univ. of Pennsylvania, 815 Maloney Bldg., Philadelphia 4. *Assoc. in Pediatrics.* (**2,** 1953)

Rose, Harry M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. and Chairman, Dept. of Microbiology.* (**6,** 1949)

Rose, Jerzy E., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md.*Assoc. Prof. of Physiology and Psychiatry.* (**1,** 1949)

Rose, William C., Ph.D. Univ. of Illinois, Urbana. *Prof. of Microbiology.* (**2,** 1912; **5,** 1933)

Rosebury, Theodor, D.D.S. Washington Univ. School of Dentistry, 4559 Scott Ave., St. Louis 10, Mo. *Prof. of Microbiology.* (**6,** 1953)

Roseman, Saul, Ph.D. Rockham Arthritis Research Unit, Univ. Hospital, Ann Arbor, Mich. *Research Assoc., Univ. of Mich.* (**2,** 1953)

Rosenblueth, Arturo, M.D. Instituto Nacional de Cardiologia, Calzada de la Piedad 300, Mexico D.F., Mexico. (**1,** 1932)

Rosenfeld, Morris, M.D. Johns Hopkins School of Medicine, Baltimore, Md. *Assoc. Prof. of Pharmacology and Exper. Therapeutics.* (**3,** 1934)

Rosenow, Edward C., M.D. Longview State Hospital, Research Dept., Cincinnati 16, Ohio. (**4,** 1913; **6R,** 1915)

Rosenthal, Otto, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Asst. Prof. of Cancer Research, Harrison Dept. of Surgical Research.* (**2,** 1946)

Rosenthal, Sanford M., M.D. Natl. Insts. of Health, Bethesda, Md. *Chief, Section in Pharmacology and Toxicology, Inst. of Exper. Biology and Med.* (**3,** 1925)

Rosenthal, S. R., M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Assoc. Prof. of Preventive Medicine and Public Health; Dir., Institution for Tuberculosis Research of Univ. of Illinois.* (**1,** 1948; **4,** 1941)

Ross, Joseph F., M.D. Robert Dawson Evans Memorial, 65 E. Newton St., Boston, Mass. *Physician, Massachusetts Memorial Hospital; Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**4,** 1941)

Rossiter, R. J., M.D., Ph.D. Univ. of Western Ontario, London, Ontario, Canada. *Prof. of Biochemistry.* (**2,** 1948)

Rostorfer, Howard Hayes, Ph.D. Indiana Univ., Bloomington. *Assoc. Prof. of Physiology.* (**1,** 1946)

Roth, George B., M.D. 3814 T St. N.W., Washington. D. C. *Prof. Emeritus of Pharmacology, George Washington Univ.* (**1R,** 1914; **3R,** 1911)

Roth, Grace M., Ph.D. Mayo Clinic, Rochester, Minn. *Asst. to Staff Consultant in Physiology; Assoc. Prof. of Exper. Medicine, Mayo Fndn.* (**1,** 1939)

Roth, James Luther d'Aumont, M.D., Ph.D. Univ. of Pennsylvania Grad. Hospital, 19th and Lombard Sts., Philadelphia 46. *Research Fellow in Gastroenterology, Grad. School of Medicine, Univ. of Pennsylvania.* (**1,** 1950)

Roth, L. W., Ph.D. Abbott Research Labs., Dept. of Pharmacology, North Chicago, Ill. *Asst. Head of Dept.* (**1,** 1947; **3,** 1950)

Rothchild, Irving, Ph.D. Ohio State Univ., Dept. of Obstetrics and Gynecology, Univ. Hospital, Columbus. (**1,** 1949)

Rothemund, Paul W. K., Dr.-Ing. Antioch College, Yellow Springs, Ohio. *Prof. of Chemistry; Research Chemist, C. F. Kettering Foundation.* (**2,** 1940)

Rothlin, Ernst, M.D. Sonnenweg 6, Basle, Switzerland. *Prof. of Medicine.* (**3,** 1951)

Rothstein, A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Asst. Prof. of Pharmacology; Chief, Physiology Sec., AEC Project.* (**1,** 1949; **3,** 1952)

Rous, Peyton, M.D., Sc.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City. *Member Emeritus.* (**4,** 1913)

Routh, Joseph I., Ph.D. State Univ. of Iowa Clinical Biochemistry Lab., Iowa City. *Prof. and Head of Lab.* (**2,** 1942)

Rovenstine, Emery Andrew, M.D. 477 First Ave., New York City. *Prof., Dept. of Medicine, New York Univ.-Bellevue Med. Center.* (**3,** 1944)

Rowntree, Jennie I., Ph.D. Univ. of Washington, Seattle. *Prof. of Home Economics.* (**5,** 1933)

Rowntree, L. G., M.D., Sc.D. Dupont Bldg., E. Flagler St. at Second Ave., Miami, Fla. (**1R,** 1911; **2R,** 1910; **3R,** 1908)

Rubenstein, Boris B., Ph.D., M.D. 5121 S. Ellis Ave., Chicago 15, Ill. (**1,** 1934)

Rubin, Saul H., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Dir., New Product Development.* (**2,** 1947; **5,** 1947)

Ruch, Theodore C., Ph.D. Univ. of Washington, G405 Health Sciences Bldg., Seattle 5. *Prof. of Physiology and Biophysics.* (**1,** 1933)

Ruchman, Isaac, Ph.D. Cincinnati General Hos-

pital, Cincinnati, Ohio. *Asst. Prof. of Microbiology.* (**6,** 1948)

Rugh, Roberts, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Radiology, New York City 32. *Assoc. Prof. of Radiology.* (**1,** 1950)

Ruhe, C. H. William, M.D. Univ. of Pittsburgh, School of Medicine, 3941 O'Hara St., Pittsburgh 13, Pa. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1951)

Rusch, Harold Paul, M.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison 6. *Prof. of Oncology; Dir. of Lab.* (**4,** 1940)

Rushmer, Robert F., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (**1,** 1949)

Rusoff, Louis L., Ph.D. Louisiana State Univ., Baton Rouge. *Nutritionist.* (**5,** 1948)

Russell, Jane A., Ph.D. Emory Univ. School of Medicine, Dept. of Biochemistry, Emory Univ., Ga. *Asst. Prof.* (**1,** 1939)

Russell, Walter C., Ph.D. New Jersey Agricultural Exper. Station, Rutgers Univ., New Brunswick. *Chairman, Dept. of Agricultural Biochemistry; Dean, Grad. School.* (**2,** 1932; **5,** 1933)

Rustigan, Robert, Ph.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, 5724 Ellis Ave., Chicago 13, Ill. *Asst. Prof.* (**6,** 1951)

Ryan, Andrew Howard, M.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1912)

Rytand, David A., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Assoc. Prof. of Medicine, Stanford Univ. School of Medicine.* (**3,** 1946)

Sabin, Albert, M.D. Children's Hospital Research Foundation, Cincinnati, Ohio. *Prof. of Research Pediatrics, Univ. of Cincinnati.* (**6,** 1946)

Sacks, Ernest, M.D. 28 Marlborough Rd., North Haven, Conn. *Prof. Emeritus of Clin. Neurological Surgery, Washington Univ. Med. School. and Yale Univ.* (**1R,** 1910)

Sacks, Jacob, Ph.D., M.D. Univ. of Arkansas, Dept. of Chemistry, Fayetteville. *Assoc. Prof.* (**1,** 1948; **3,** 1933)

Sah, Peter P. T., Ph.D. Univ. of Calif., School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Professor.* (**3,** 1941)

Sahyun, Melville, Ph.D. Sahyun Research Lab., 316 Castillo St., Santa Barbara, Calif. *Dir. and Owner.* (**2,** 1932)

Sakami, Warwick, Ph.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

Salk, Jonas E., M.D. Virus Research Laboratory, Municipal Hospital, Pittsburgh, Pa. *Research Prof. of Bacteriology.* (**6,** 1947)

Salmon, W. D., A.M. Alabama Polytechnic Inst., Auburn. *Head, Animal Husbandry and Nutrition.* (**2,** 1929; **5,** 1933)

Salomon, Kurt, M.D., Ph.D. Univ. of Rochester, Atomic Energy Project, P. O. Box 287, Station 3, Rochester 20, N. Y. *Section Chief, Dept. of Radiation Chemistry; Asst. Prof. of Radiation Biology and Biochemistry.* (**2,** 1952)

Salvin, Samuel B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Sr. Scientist.* (**6,** 1952)

Sammis, Florence E., M.D. 34 Cathedral Ave., Hempstead, L. I., N. Y. *Physician, Allergy, OPD, New York Hospital.* (**6,** 1943)

Sampson, John J., M.D. 2211 Post St., San Francisco, Calif. *Clin. Prof. of Medicine, Univ. of California.* (**1,** 1932)

Sampson, Myra M., Ph.D. Smith College, Northampton, Mass. *Prof. of Zoology.* (**5,** 1935)

Samuels, Leo T., Ph.D. Univ. of Utah Med. School, Salt Lake City. *Prof. and Head of Dept. of Biological Chemistry.* (**2,** 1941; **3,** 1937; **5,** 1949)

Sanadi, D. Rao, Ph.D. Univ. of Wisconsin, Inst. for Enzyme Research, Madison 5. *Asst. Prof., Enzyme Inst.* (**2,** 1952)

Sandels, Margaret R., Ph.D. Florida State Univ., Tallahassee. *Dean of School of Home Economics; Prof. of Nutrition.* (**5,** 1933)

Sandiford, Irene, Ph.D. Billings Hospital, Univ. of Chicago, Chicago, Ill. *Asst. Prof. of Medicine.* (**2,** 1925; **5,** 1933)

Sandow, Alexander, Ph.D. Washington Square College of Arts and Sciences, New York Univ., New York City. *Assoc. Prof. of Biology.* (**1,** 1945)

Sandweiss, David J., M.D. 9739 Dexter Ave., Detroit, Mich. *Instr. in Clin. Medicine, Wayne Univ. College of Medicine; Physician, Harper Hospital (OPD).* (**1,** 1944)

Sanford, Arthur H., M.D. Clin. Labs., Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.* (**6R,** 1920)

Santos, Francisco O., Ph.D. Univ. of the Philippines, Laguna. *Asst. Dean and Asst. Dir., Central Exper. Station; Prof. and Head of Dept. of Agricultural Chemistry, College of Agriculture.* (**5,** 1936)

Saphir, Otto, M.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Dir. of Pathology. Clin. Prof. of Pathology, Univ. of Illinois Med. School.* (**4,** 1927)

Saphra, Ivan, M.D. Beth Israel Hospital, New York City. *Assoc. Bacteriologist.* (**6,** 1946)

Sapirstein, Leo Abraham, Ph.D., M.D. Ohio State Univ., Dept. of Physiology, Columbus 10. (**1,** 1950)

Sarett, Herbert P., Ph.D. Mead, Johnson & Co., Research Labs., Evansville 21, Ind. *Dir. Nutritional Research.* (**2,** 1946; **5,** 1947)

Sargent, Frederick, II, M.D. 607 S. Elm St., Champaign, Ill. *Asst. Prof. of Physiology, Univ. of Illinois, Urbana.* (**1,** 1952)

Sarnoff, Stanley J., M.D. Harvard School of Public Health, 55 Shattuck St., Boston 15, Mass. *Asst. Prof. of Physiology.* (**1,** 1949)

Sartorius, Otto W., M.D. Syracuse Univ., College of Medicine, Irving Ave., Syracuse, N. Y. *Asst. Prof. of Physiology.* (**1,** 1950)

Saslaw, Samuel, Ph.D., M.D. Ohio State Univ., Columbus 10. *Assoc. Prof. in Medicine and Bacteriology.* (**6,** 1950)

Saslow, George, Ph.D., M.D. Washington Univ. Med. School, Dept. of Neuropsychiatry, 640 S. Kingshighway, St. Louis, Mo. *Asst. Prof. of Psychiatry; Assoc. Physician to the Student Health Service.* (**1,** 1936)

Satterfield, G. Howard, A.M. Univ. of North Carolina, State College of Agriculture and Engineering, Raleigh. *Prof. of Biochemistry.* (**2,** 1944; **5,** 1941)

Sauberlich, Howerde E., Ph.D. Alabama Polytechnic Inst., Dept. of Animal Husbandry and Nutrition, Auburn. *Prof. and Animal Nutritionist.* (**2,** 1951; **5,** 1952)

Saul, Leon Joseph, M.D. Room 1907, 255 S. 17th St., Philadelphia 3, Pa. (**1,** 1933)

Savard, F. G. Kenneth, D.Sc. Worcester Foundation for Exptl. Biology, Shrewsbury, Mass. *Staff—Sr. Member; Dept. of Medicine, Boston Univ. Med. School, Boston.* (**2,** 1953)

Sawyer, Charles H., Ph.D. Univ. of California School of Medicine, Dept. of Anatomy, Los Angeles 24. *Prof.* (**1,** 1949)

Sawyer, Margaret E. MacKay, Ph.D. 142 Lower Albert St., Kingston, Ontario, Canada. *Royal Military College.* (**1,** 1935)

Sawyer, Wilbur H., Ph.D., M.D. New York Univ. College of Medicine, Dept. of Physiology, 477 First Ave., New York City 16. *Asst. Prof.* (**1,** 1953)

Saxton, John A., Jr., M.D. Snodgras Lab. of Pathology and Bacteriology, 1430 Carroll St., St. Louis, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Lab. Dir., Hospital Div., City of St. Louis.* (**4,** 1944)

Sayers, George, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Physiology, Cleveland 6, Ohio. *Professor.* (**1,** 1948; **3,** 1947)

Scantlebury, Ronald E., Ph.D. Natl. Insts. of Health, Div. of Research Grants and Fellowships, Bethesda 14, Md. *Chief, Research Fellowships Branch.* (**1,** 1948)

Schaefer, Arnold E., Ph.D. E. R. Squibb & Sons, Biochemical Div., New Brunswick, N. J. *Dept. Head.* (**5,** 1950)

Schaefer, Karl Ernst, M.D. U. S. Naval Med. Research Lab., New London, Conn. *Research Physiologist; Head, Physiology Branch.* (**1,** 1953)

Schales, Otto, D.Sc. Ochsner Clinic, Prytania and Aline Sts., New Orleans, La. *Dir. of Chemical Research, Ochsner Foundation; Dir., Clin. Chemistry Lab., Ochsner Clinic; Prof. of Biochemistry, Tulane Univ. School of Medicine.* (**2,** 1944)

Schallek, William B., Ph.D. Hoffman-LaRoche, Inc., Nutley 10, N.J. *Physiologist.* (**1,** 1951)

Scharles, Frederick H., M.D. 333 N. Highland Ave., Los Angeles 36, Calif. (**5,** 1935)

Schattenberg, Herbert John, M.D. Lab. of Clin. Pathology, 220–222 Med. Arts Bldg., San Antonio, Tex. *Director.* (**4,** 1940)

Schayer, Richard W., Ph.D. Northwestern Univ., Rheumatic Fever Research Inst., Chicago 22, Ill. *Research Assoc.* (**2,** 1952)

Scheer, Bradley T., Ph.D. Univ. of Oregon, Eugene. *Assoc. Prof. of Biology.* (**1,** 1952)

Schenck, Jay R., Ph.D. Abbott Labs., North Chicago, Ill. *Research Biochemist.* (**2,** 1952)

Schenken, John R., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Pathology and Bacteriology.* (**4,** 1942)

Scherago, Morris, D.V.M. Univ. of Kentucky, Dept. of Bacteriology, Lexington. *Prof. and Head of Dept.* (**6,** 1948)

Scherp, Henry W., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Bacteriology and Immunochemistry.* (**6,** 1940)

Schick, Bela, M.D. 17 E. 84th St., New York City. *Dir. Pediatrics Dept., Beth El Hosp., Brooklyn.* (**6,** 1924)

Schiffrin, Milton J., Ph.D. Hoffmann-LaRoche, Inc., Chicago, Ill. *Asst. Dir., Dept. of Clin. Research.* (**1,** 1943)

Schiller, Alfred A., M.D. Univ. of Illinois College of Medicine, Chicago. *Asst. Prof. of Physiology.* (**1,** 1948)

Schiller, Joseph, M.D., Ph.D. American Hosp. of Paris, 6 Rue du Pont de Lodi, Paris, France. *Consulting Staff; Consultant, USPHS.* (**1,** 1949)

Schlamowitz, Max, Ph.D. 69–97 Park Drive East, Flushing 67, N. Y. *Asst., Sloan-Kettering Inst. for Cancer Research; Assoc., Sloan-Kettering Div., Cornell Med. College.* (**2,** 1953)

Schlegel, J. U., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Asst. Prof. of Urologic Physiology; Dir. of Urological Research Lab.* (**1,** 1951)

Schlenk, Fritz, Ph.D. Science Hall, Iowa State College, Ames. *Prof. of Bacteriology.* (**2,** 1942)

Schlesinger, M. J., Ph.D., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Pathologist. Asst. Prof. of Pathology, Harvard Med. School.* (**4,** 1942; **6,** 1921)

Schlomovitz, Benjamin H., M.D. 1210 Majestic Bldg., 231 W. Wisconsin Ave., Milwaukee, Wis. (**1,** 1919)

Schlumberger, Hans G., M.D. Ohio State Univ. College of Medicine, Columbus. *Prof. of Pathology.* (**4,** 1945)

Schmeisser, Harry C., M.D. Univ. of Tennessee, Memphis. *Prof. of Pathology.* (**4,** 1937)

Schmidt, Carl F., M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Pharmacology.* (**1,** 1929; **3,** 1924)

Schmidt, C. Robert, Ph.D., M.D. 1027 S. Tejon, Colorado Springs, Colo. (**1,** 1940)

Schmidt, Emil G., Ph.D. Univ. of Maryland School of Medicine, Dept. of Biological Chemistry, Baltimore 18. *Prof. and Head of Dept.* (**2,** 1951)

Schmidt, Gerhard, M.D. Boston Dispensary, 25 Bennett St., Boston, Mass. *Sr. Research Fellow of Biochemistry, Tufts College Med. School.* (**2,** 1939)

Schmidt, L. H., Ph.D. Christ Hospital Inst. of Med. Research, 2139 Auburn Ave., Cincinnati 19, Ohio. *Dir. of Research; Research Prof. of Biochemistry, Univ. of Cincinnati College of Medicine.* (**2,** 1936; **3,** 1946)

Schmidt-Nielsen, Bodil, D.D.S. Duke Univ., Dept. of Zoology, Durham, N. C. (**1,** 1949)

Schmidt-Nielsen, Knut, Ph.D. Duke Univ., Dept. of Zoology, Durham, N. C. *Professor.* (**1,** 1949)

Schmitt, Francis Otto, Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Biology.* (**1,** 1930)

Schmitt, Otto H., Ph.D. Univ. of Minnesota, Dept. of Physics, Minneapolis 14. *Prof. of Zoology and Physics.* (**1,** 1947)

Schneider, Burch H., Ph.D. State College of Washington, Dept. of Animal Husbandry, Pullman. *Professor.* (**5,** 1952)

Schneider, Charles L., M.D., Ph.D. 22148 Michigan Ave., Dearborn, Mich. (**1,** 1949)

Schneider, Edward C., Ph.D. 25 Gordon Place, Middletown, Conn. *Prof. Emeritus of Biology, Wesleyan Univ.* (**1R,** 1912; **2R,** 1912)

Schneider, Howard A., Ph.D. Rockefeller Inst. for Med. Research, 66th Street and York Avenue, New York City 21. *Associate.* (**5,** 1947)

Schneider, John J., Ph.D., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Asst. Prof. Exper. Medicine.* (**2,** 1950)

Schneider, Walter C., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chemist, Lab. of Biology.* (**2,** 1951)

Schneierson, S. Stanley, M.D. Mount Sinai Hospital, 2 East 100th St., New York City 29. *Assoc. in Microbiology.* (**6,** 1946)

Schoepfle, Gordon M., Ph.D. Washington Univ. School of Medicine, St. Louis, Mo. *Asst. Prof. of Physiology.* (**1,** 1943)

Scholander, P. F., M.D., Ph.D. Woods Hole Oceanographic Inst., Woods Hole, Mass. *Physiologist.* (**1,** 1947)

Schradieck, Constant E., M.D. P.O. Box 98, Newton Highlands, Mass. *Retired.* (**6,** 1921)

Schreiner, Oswald, Ph.D. 21 Primrose St., Chevy Chase 15, Md. *Collaborator, U.S.D.A.* (**2R,** 1908)

Schrek, Robert, M.D. Veterans Admin. Hospital, Hines, Ill. *Chief, Tumor Research Unit; Asst. Prof. of Pathology, Northwestern Univ., Chicago.* (**4,** 1952)

Schroeder, E. F., Ph.D. G. D. Searle & Co., P. O. Box 5110, Chicago 80, Ill. *Research Chemist.* (**2,** 1938)

Schroeder, Henry A., M.D. Washington Univ., School of Medicine, 640 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Medicine.* (**1,** 1947)

Schubert, Maxwell, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 10. *Adjunct Assoc. Prof. of Chemistry.* (**3,** 1947)

Schuck, Cecelia, Ph.D. Purdue Univ., Dept. of Home Economics, Lafayette, Ind. *Prof. of Nutrition.* (**5,** 1941)

Schueler, Fred W., Ph.D. Instituto Superiore Di Sanita, Viale Ludovisi 16, ℅ Fulbright Commission, Rome, Italy. *On leave of absence from State Univ. of Iowa.* (**3,** 1949)

Schultz, Edwin William, M.D. Stanford Univ., 743 Cooksey Lane, Stanford, Calif. *Prof. of Bacteriology and Exper. Pathology Emeritus.* (**4,** 1927; **6R,** 1928)

Schultz, Fred H., Jr., Ph.D. Baxter Labs., Inc., Morton Grove, Ill. *Dir., Pharmacological Research.* (**3,** 1948)

Schultz, W. H., Ph.D. 241 W. Broadway, Long Beach, N. Y. *Prof. Emeritus of Pharmacology, Univ. of Maryland.* (**1R,** 1907; **3R,** 1909)

Schultze, Max O., Ph.D. Univ. of Minnesota, Dept. of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Professor.* (**2,** 1938; **5,** 1952)

Schwartz, Irving L., M.D. Rockefeller Inst. for Med. Research, York Ave. and East 66th St., New York City 21. *Asst.; Asst. Physician to the Hospital.* (**1,** 1952)

Schwartz, Samuel, M.D. Univ. of Minnesota, Dept. of Medicine, Minneapolis 14. *Assoc. Prof. of Exper. Medicine.* (**2,** 1952)

Schweigert, B. S., Ph.D. Univ. of Chicago, American Meat Inst. Foundation, 939 E. 57th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry; Asst. Dir. of Research, American Meat Inst.* (**2,** 1949; **5,** 1950)

Schweizer, Malvina, Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Assoc. Prof. of Biology.* (**1,** 1944)

Schwerma, Henry, Ph.D. 6030 Sheridan Rd., Apt. 1304, Chicago 40, Ill. *Anesthesiologist, St. Francis Hosp., Evanston.* (**1,** 1948)

Schwert, George W., Ph.D. Duke Univ. School

of Medicine, Dept. of Biochemistry, Durham, N. C. *Assoc. Prof.* (**2,** 1949)

Schwimmer, Sigmund, Ph.D. Western Regional Research Lab., U. S. Dept. of Agriculture, 800 Buchanan St., Albany, Calif. *Chemist, Vegetable Processing Div.* (**2,** 1947)

Scott, Charles Covert, Ph.D., M.D. Warner-Chilcott Labs., Morris Plains, N. J. *Dir. of Clinical Pharmacology.* (**3,** 1945)

Scott, David Alymer, Ph.D. Connaught Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Member.* (**2,** 1935)

Scott, Donald, Jr., Ph.D. Univ. of Pennsylvania Med. School, 243 Anatomy Bldg., Philadelphia 4. *Asst. Prof., Dept. of Anatomy; Assoc., Dept. of Neurology.* (**1,** 1950)

Scott, Ernest L., Ph.D. 64 South St., Bogota, N. J. *Assoc. Prof. Emeritus of Physiology, Columbia Univ.* (**1R,** 1914; **2R,** 1915)

Scott, James K., M.D. Univ. of Rochester School of Medicine and Dentistry, Atomic Energy Project, Rochester 7, N. Y. *Chief, Pathology Section, AEC; Assoc. in Pathology.* (**4,** 1949)

Scott, John C., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Physiology.* (**1,** 1936)

Scott, Milton Leonard, Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Animal Nutrition and Poultry Husbandry.* (**2,** 1952)

Scott, R. W., M.D. City Hospital, Cleveland, Ohio. *Physician in Chief; Prof. of Clin. Medicine, Western Reserve Univ.* (**1,** 1917; **3,** 1917)

Scott, V. Brown, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. *Internist, Div. of Medicine.* (**1,** 1941)

Scott, W. W., Ph.D., M.D. Brady Urological Inst., Johns Hopkins Hospital, Baltimore 5, Md. *Urologist-in-Charge.* (**1,** 1943)

Scow, Robert O., M.D. Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Surgeon, USPHS.* (**1,** 1953)

Scrimshaw, Nevin S., Ph.D., M.D. Instituto de Nutricion de Centro America y Panama, Guatemala City, Guatemala, Central America. *Dir. of Div. of Nutrition, Pan American Sanitary Bureau.* (**5,** 1949)

Scudi, John V., Ph.D. Bristol-Myers Products Div., 225 Long Ave., Hillside 5, N. J. *Asst. Vice-Pres.* (**2,** 1942; **3,** 1950; **5,** 1945)

Seager, Lloyd D., M.D. Univ. of Arkansas Med. School, Little Rock. *Prof. and Head, Dept. of Physiology and Pharmacology.* (**3,** 1939)

Seaman, Gerald R., Ph.D. Univ. of Texas Med. Branch, Galveston. *Asst. Prof. of Physiology.* (**1,** 1952)

Seastone, C. V., Jr., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. and Chairman of Med. Bacteriology.* (**6,** 1939)

Sebrell, W. H., Jr., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Director.* (**2,** 1938; **5,** 1937)

Seeberg, Victor P., Ph.D. Cutter Labs., Berkeley, Calif. *Dir., Pharmacological Research Dept.* (**3,** 1953)

Seecof, David P., M.D. 1970 Daly Ave., Bronx, New York City. (**4,** 1927)

Seed, John C., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Exec. Asst. to Dir.* (**3,** 1952)

Seegal, Beatrice Carrier, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Bacteriology.* (**4,** 1951; **6,** 1949)

Seegal, David, M.D. Goldwater Memorial Hospital, Columbia (First) Div., Welfare Island, New York City 17. *Dir.; Prof. of Medicine, Columbia Univ.* (**6,** 1930)

Seegers, Walter H., Ph.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Prof. of Physiology; Chairman, Dept. of Physiology and Pharmacology.* (**1,** 1947; **2,** 1921)

Seevers, Maurice Harrison, Ph.D., M.D. Univ of Michigan, Ann Arbor. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1933; **3,** 1930)

Segaloff, Albert, M.D. Alton Ochsner Med. Foundation, 3503 Prytania St.. New Orleans, La. *Dir. of Endocrine Research.* (**4,** 1946)

Seibert, Florence B., Ph.D. Univ. of Pennsylvania, Henry Phipps Inst., 7th and Lombard Sts., Philadelphia. *Assoc. Prof. of Biochemistry.* (**2,** 1925)

Seibert, Richard A., Ph.D. Baylor Univ. College of Medicine, Dept. of Pharmacology, Houston 25, Tex. *Asst. Prof.* (**3,** 1953)

Seidell, Atherton, Ph.D. 2301 Connecticut Ave., Washington, D. C. (**2R,** 1924)

Seifter, Joseph, M.D. Wyeth Inst. of Applied Biochemistry, Philadelphia, Pa. *Director of Research.* (**3,** 1940)

Seifter, Sam, Ph.D. State Univ. of New York Med. Center at New York City, 350 Henry St., Brooklyn 2, N. Y. *Assoc. Prof. of Biochemistry.* (**2,** 1946)

Selkurt, Ewald E., Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Physiology.* (**1,** 1945)

Selle, Wilbur Arthur, Ph.D. Univ. of California at Los Angeles Med. School, Los Angeles. *Prof. and Head, Dept. of Biophysics.* (**1,** 1938)

Sellers, E. A., M.D., Ph.D. Univ. of Toronto, Dept. of Physiology, Toronto, Ontario, Canada. *Prof. of Physiology; Assoc. Prof. in Banting and Best Dept. of Med. Research.* (**1,** 1947)

Selye, Hans, M.D., Ph.D. Inst. of Exper. Medicine and Surgery, Univ. of Montreal, Montreal. Quebec, Canada. *Prof. and Dir.* (**1,** 1934)

Sendroy, Julius, Jr., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14,

Md. *Chief Chemist; Head, Div. of Chemistry.* (**2,** 1928)

Sevag, M. G., Ph.D. Univ. of Pennsylvania School of Medicine, Microbiology Dept., Philadelphia 4. *Assoc. Prof.* (**2,** 1949; **6,** 1941)

Sevringhaus, Elmer L., M.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Dir. of Clin. Research; Clin. Prof. of Medicine, New York Med. College.* (**2,** 1923; **5,** 1939)

Shaffer, C. Boyd, Ph.D. American Cyanamid Co., 30 Rockefeller Plaza, New York City 20. *Chief Industrial Toxicologist.* (**3,** 1950)

Shaffer, Morris F., Ph.D. Tulane Univ. School of Medicine, Dept. of Microbiology, New Orleans, La. *Prof. and Dept. Chairman.* (**4,** 1939; **6,** 1937)

Shaffer, Philip A., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. Emeritus of Biological Chemistry.* (**2R,** 1906)

Shanes, Abraham M., Ph.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda 14, Md. *Animal Physiologist.* (**1,** 1946)

Shank, Robert E., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Preventive Medicine and Head of Dept.* (**2,** 1947)

Shannon, James A., Ph.D., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Assoc. Director.* (**1,** 1933; **3,** 1945)

Shapiro, Herbert, Ph.D. Hospital of the Univ. of Pennsylvania, 3600 Spruce St., Philadelphia 4. *Asst. Prof. of Physical Medicine, Grad. School of Medicine.* (**1,** 1937)

Sharpless, George R., Sc.D. Lederle Labs., Pearl River, N. Y. *Research Assoc.* (**5,** 1942)

Shaw, J. C., Ph.D. Univ. of Maryland, Dept. of Dairy Husbandry, College Park. *Professor.* (**1,** 1947)

Shaw, James H., Ph.D. Harvard School of Dental Medicine, Boston, Mass. *Asst. Prof. of Dental Medicine.* (**5,** 1948)

Shaw, Myrtle, Ph.D. 11 S. Lake Ave., Albany, N. Y. *Sr. Bacteriologist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** 1937)

Shay, Harry, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Dir. of Fels Research Inst. and Prof. of Clin. Medicine.* (**1,** 1944)

Shear, M. J., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Chief, Lab. of Chemical Pharmacology.* (**2,** 1930; **3,** 1953)

Sheard, Charles, Ph.D. Mayo Foundation, Rochester, Minn. *Chief of Div. of Physics and Biophysical Research; Prof. of Physiological Optics and Biophysics, Univ. of Minnesota.* (**1,** 1925)

Shechmeister, I. L., Ph.D. Washington Univ. School of Dentistry, St. Louis, Mo. *Assoc. Prof. of Bacteriology.* (**6,** 1951)

Sheehan, Donal, M.D., D.Sc. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City. (**1,** 1938)

Shelesnyak, M. C., Ph.D. Weizmann Inst. of Science, Dept. of Exper. Biology, Rehovoth, Israel. *Sr. Scientist.* (**1,** 1948)

Shelley, Walter B., Ph.D., M.D. Univ. of Pennsylvania Hospital, 3400 Spruce St., Philadelphia 4. *Physician.* (**1,** 1946)

Shemin, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2,** 1944)

Shepard, Charles C., M.D. U. S. Public Health Service, P.O. Box 769, Savannah, Ga. *Sr. Surgeon.* (**6,** 1951)

Sheppard, C. W., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Principal Physicist.* (**1,** 1950)

Sheppard, Fay, M.S. Univ. of Oklahoma Med. School, Oklahoma City. *Instr. in Biochemistry.* (**2,** 1936)

Sherman, F. G., Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Assoc. Prof.* (**1,** 1950)

Sherman, Henry C., Ph.D. % Mrs. O. E. Lanford, Elmbrook Farm, Castleton-on-Hudson, Route 1, N. Y. (**1R,** 1923; **2R,** 1906; **5R,** 1933)

Sherman, William C., Ph.D. Ralston Purina Co., St. Louis, Mo. *Mgr. of Biological Research Labs.* (**5,** 1949)

Sherrod, Theodore R., Ph.D., M.D. Univ. of Illinois, College of Medicine, 1853 West Polk St., Chicago 12. *Assoc. Prof. of Pharmacology.* (**3,** 1952)

Sherwin, Carl Paxson, Sc.D., M.D., Dr. P.H. Whippleville, N. Y. *Consultant, Med. Dept., Hyde Memorial Hospital, Malone, N. Y.* (**2R,** 1917)

Sherwood, Noble P., Ph.D., M.D. Univ. of Kansas, 503 Snow Hall, Lawrence. *Pathologist.* (**6,** 1928)

Sherwood, Thomas Cecil, Ph.D., M.D. 2133 Octavia, New Orleans 15, La. *Staff Member, Internal Medicine, Southern Baptist Hospital.* (**1,** 1938)

Shettles, Landrum B., Ph.D., M.D. Columbia Univ., College of Physicians and Surgeons, Box 330, 622 W. 168th St., New York City. *Assoc. in Obstetrics and Gynecology.* (**1,** 1946)

Shideman, Frederick E., Ph.D., M.D. Univ. of Wisconsin, Dept of Pharmacology, Madison 6. *Prof. of Pharmacology and Toxicology.* (**3,** 1944)

Shils, Maurice E., Sc.D. 600 W. 168th St., New York City 32. *Asst. Prof. of Nutrition, School of Public Health, Columbia Univ.* (**5,** 1950)

Shimkin, Michael Boris, M.D. Univ. of California Hospital, San Francisco. *Chief, Lab. of Exper. Oncology, USPHS.* (**4,** 1940)

Shinowara, George Y., Ph.D. Ohio State Univ. College of Medicine, Columbus 10. *Prof. and Chief of Div. of Chem. Pathology.* (**2,** 1949)

Shipley, Reginald A., M.D. Veterans Admin. Hos-

pital, 7300 York Rd., Cleveland 29, Ohio. *Dir., Radioisotope Unit.* (**1**, 1945)

Shipley, Robert E., M.D. Lilly Lab. for Clin. Research, Indianapolis City Hospital, Indianapolis, Ind. *Physiologist.* (**1**, 1945)

Shive, William, Ph.D. Univ. of Texas, Dept of Chemistry, Austin. *Prof. of Chemistry.* (**2**, 1948)

Shlaer, Simon, Ph.D. Box 1663, Los Alamos, N. M. *Staff Member, Los Alamos Scientific Lab.* (**1**, 1938)

Shock, Nathan W., Ph.D. Baltimore City Hospitals, Baltimore 24, Md. *Chief, Section on Gerontology, USPHS, Natl. Insts. of Health, Bethesda, Md.* (**1**, 1942)

Shoemaker, Harold A., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City. *Prof. of Pharmacology.* (**3**, 1941)

Shope, Richard E., M.D. Ridge Road, Kingston, N. J. *Member, Rockefeller Inst.* (**4**, 1934)

Shorr, Ephraim, M.D. New York Hospital, 525 E. 68th St., New York City. *Asst. Attending Physician; Assoc. Prof. of Medicine, Cornell Univ. Med. College.* (**1**, 1931; **3**, 1942)

Shrigley, E. W., Ph.D., M.D. Indiana Univ. Med. Center, Dept. of Microbiology, 1040–1232 W. Michigan St., Indianapolis 7. *Prof. and Chairman of Dept.* (**6**, 1946)

Shulman, Sidney, Ph.D. Univ. of Buffalo School of Medicine, Dept. of Bacteriology and Immunology, Buffalo, N. Y. *Assoc. in Immunochemistry.* (**2**, 1953)

Shwartzman, Gregory, M.D. 230 E. 50th St., New York City. *Head of Dept. of Bacteriology, Mount Sinai Hospital; Prof. of Bacteriology, Columbia Univ.* (**4**, 1929; **6**, 1930)

Sichel, F. J. M., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Physiology and Biophysics.* (**1**, 1939)

Sickles, Grace M., B.A. 2201 Twelfth St., Troy, N. Y. *Assoc. Bacteriologist, Div. of Labs. and Research, New York State Dept. of Health.* (**6**, 1932)

Sickles, Gretchen R., A.B. New York State Dept. of Health, Div. of Labs. and Research, Albany, N. Y. *Asst. Bacteriologist.* (**6**, 1937)

Siebenmann, Charles O., D.Eng. Connaught Med. Research Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Assoc.; Lecturer in Hygiene and Preventive Medicine.* (**3**, 1946)

Siebens, Arthur A., M.D. State Univ. of New York Med. Center at New York, Dept. of Physiology and Pharmacology, Brooklyn 2. *Assoc. Prof.* (**1**, 1952)

Siebert, Walter J., M.D. Lutheran Hospital, St. Louis, Mo. *Dir. of Labs.; Pathologist; Asst. Prof., Washington Univ.* (**4**, 1932)

Siegmund, Otto Hanns, D.V.M. Merck and Co., Inc., Veterinary Research Dept., Rahway, N. J. *Mgr., Veterinary Literature Sec.* (**3**, 1950)

Sigel, M. Michael, Ph.D. Communicable Disease Center, Virus and Rickettsia Sec., USPHS, P. O. Box 61, Montgomery, Ala. (**6**, 1950)

Silber, Robert H., Ph.D. Merck Inst., Rahway, N. J. *Head, Dept. of Biochemistry.* (**2**, 1948)

Silberberg, Martin, M.D. 18 S. Kingshighway, St. Louis 8, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Sr. Pathologist, Hospital Div., City of St. Louis.* (**4**, 1944)

Silberberg, Ruth, M.D. 18 S. Kingshighway, St. Louis 8, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Sr. Pathologist, Hospital Div., City of St. Louis.* (**4**, 1944)

Silverman, Milton, Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Scientist, Exper. Biology and Medicine Inst.* (**2**, 1950)

Silvette, Herbert, Ph.D. "Low Gear," Stanardsville, Va. *Visiting Assoc. Prof. of Pharmacology, Univ. of Washington, Seattle.* (**1**, 1933; **3**, 1940)

Simmonds, Sofia, Ph.D. Yale Univ., School of Medicine, Dept. of Biochemistry, 333 Cedar St., New Haven 11, Conn. *Asst. Prof. of Biochemistry and Microbiology.* (**2**, 1948)

Simonds, James P., Ph.D., M.D. 1200 Belden Ave., Chicago 45, Ill. *Prof. Emeritus of Pathology, Northwestern Univ. Med. School.* (**4**, prior to 1920)

Simonsen, Daisy G., Ph.D. St. Joseph Hospital, Orange, Calif. *Biological Chemist.* (**2**, 1949)

Simonson, Ernst, M.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Stadium South Tower, Minneapolis 14. *Assoc. Prof. of Physiology.* (**1**, 1941)

Simpson, Miriam E., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Anatomy.* (**1**, 1946)

Sinclair, Hugh, M.D. Univ. of Oxford, Oxford, England. *Dir., Lab. of Human Nutrition.* (**5**, 1953)

Singal, Sam A., Ph.D. Med. College of Georgia, Augusta. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

Singer, Thomas P., Ph.D. Univ. of Wisconsin, Enzyme Inst., Madison. *Member.* (**2**, 1948)

Sinsheimer, Robert L., Ph.D. Iowa State College, Dept. of Physics, Ames. *Assoc. Prof. of Biophysics.* (**2**, 1953)

Sirota, Jonas H., M.D. 325 Riverside Dr., New York City 25. *Research Fellow, Mt. Sinai Hospital.* (**1**, 1951)

Sizer, Irwin W., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Assoc. Prof. of Physiology.* (**1**, 1944)

Skinner, John Taylor, Ph.D. The Grapette Co., Camden, Ark. *Chief Chemist.* (**2**, 1946)

Skipper, Howard E., Ph.D. Southern Research Inst., 917 S. 20th St., Birmingham, Ala. *Asst. Dir. and Head, Biochemistry Div.* (**2**, 1953)

Slater, Irwin H., M.D. Strong Memorial Hospital, Rochester 20, N.Y. *Asst. Prof. of Pharmacology.* (**3**, 1951)

Slein, Milton W., Ph.D. 102 Norva Ave., Frederick, Md. *Biochemist, Camp Detrick.* (**2,** 1953)

Slonaker, James R., Ph.D. 334 Kingsley Ave., Palo Alto, Calif. *Emeritus Prof. of Physiology, Stanford Univ.* (**1R,** 1917)

Smadel, Joseph Edwin, M.D. Army Med. Service Grad. School, Washington 12, D. C. *Chief, Dept. of Virus and Rickettsial Diseases.* (**4,** 1940; **6,** 1937)

Small, James C., M.D. 101 S. 39th St., Philadelphia, Pa. (**4,** 1927)

Smetana, Hans F., M.D. Armed Forces Inst. of Pathology, 7th St. and Independence Ave., Washington 25, D. C. *Chief, Div. of Pathology.* (**4,** 1934)

Smith, Arthur H., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Prof. and Head of Dept. of Physiological Chemistry.* (**2,** 1921; **5,** 1933)

Smith, Austin Edward, M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Editor, J.A.M.A.* (**3,** 1942)

Smith, Carl C., Ph.D. Christ Hospital, Inst. of Med. Research, Cincinnati 19, Ohio. *Research Assoc. in Pharmacology.* (**3,** 1951)

Smith, Clarence A., Ph.D. Standard Brands, Inc., 595 Madison Ave., New York City. *Technical Dir., Agricultural Dept.* (**1,** 1921)

Smith, David T., M.D. Duke Hospital, Durham, N. C. *Prof. of Bacteriology and Assoc. Prof. of Medicine.* (**5,** 1943; **6,** 1949)

Smith, Dietrich Conrad, Ph.D. Univ. of Maryland School of Medicine, Lombard and Greene Sts., Baltimore. *Prof. of Physiology.* (**1,** 1937)

Smith, Donn L., Ph.D. Univ. of Colorado, Dept. of Pharmacology, 4200 E. Ninth Ave., Denver. *Asst. Prof.* (**3,** 1953)

Smith, Douglas E., Ph.D. Argonne Natl. Lab., P.O. Box 299, Lemont, Ill. *Assoc. Physiologist.* (**1,** 1947)

Smith, Durwood James, M.D. Univ. of Vermont, College of Medicine, Burlington. *Prof. of Pharmacology.* (**1,** 1952)

Smith, Edwin L., Ph.D. Univ. of Texas Dental Branch, Houston. *Prof. of Physiology.* (**1,** 1948)

Smith, Elinor Van Dorn, Ph.D. 56 Middle St., Hadley, Mass. *Prof. of Bacteriology, Smith College.* (**6,** 1940)

Smith, Elizabeth R. B., Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Biochemist,* (**2,** 1938)

Smith, Emil L., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Prof. of Biochemistry; Research Prof. of Medicine.* (**2,** 1946)

Smith, Erma A., Ph.D., M.D. Veterans Admin. Hospital, Hines, Ill. *Psychiatrist.* (**1,** 1928)

Smith, Falconer, Ph.D. 6020 Tilden Lane, Rockville, Md. *Sr. Scientist, USPHS; Research in Radiobiology.* (**1,** 1950)

Smith, George H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. of Immunology and Asst. Dean; Chairman of Dept. of Bacteriology, Yale Univ.* (**6,** 1918)

Smith, Grant Newey, Ph.D. Dow Chemical Co. Agric. Research Lab., Midland, Mich. *Biochemist.* (**2,** 1953)

Smith, H. P., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Delafield Prof. of Pathology.* (**1,** 1937; **4,** 1925)

Smith, Homer W., Sc.D. New York Univ., Bellevue Med. Center, 477 First Ave., New York City. *Prof. of Physiology.* (**1,** 1923; **2,** 1930)

Smith, Janice M., Ph.D. Univ. of Illinois, Dept. of Home Economics, Urbana. *Prof. and Head of Dept.* (**5,** 1947)

Smith, Jay A., Ph.D. Chicago Med. School, Dept. of Physiology, 710 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof.* (**1,** 1951)

Smith, John R., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Medicine.* (**1,** 1947)

Smith, Lawrence Weld, M.D. 119 E. 26th St., New York City 10. (**4,** 1927)

Smith, Lee Irvin, Ph.D. Univ. of Minnesota School of Chemistry, Minneapolis 14. *Prof. and Chief of Div. of Organic Chemistry.* (**2,** 1942)

Smith, Margaret Cammack, Ph.D. El Encanto Estates, Tucson, Ariz. (**5,** 1933)

Smith, Margaret H. D., M.D. Tulane Univ. Med. School, 1430 Tulane Ave., New Orleans, La. *Assoc. Prof. of Pediatrics.* (**6,** 1953)

Smith, Paul K., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Prof. of Pharmacology and Exec. Officer of Dept.* (**2,** 1937; **3,** 1937)

Smith, Paul W., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City. *Prof. of Pharmacology.* (**1,** 1933; **3,** 1951)

Smith, Philip Edward, Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. (**1R,** 1923)

Smith, Ralph G., M.D., Ph.D. Federal Security Agency, Food and Drug Admin., Washington 25, D. C. *Med. Officer; Head of New Drug Branch.* (**3,** 1929)

Smith, R. Blackwell, Jr., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

Smith, Robert E., Ph.D. Univ. of California at Los Angeles Med. School, Los Angeles 24. *Assoc. Prof. of Physiology.* (**1,** 1953)

Smith, Sedgwick E., Ph.D. Cornell Univ., Dept. of Animal Husbandry, Ithaca, N. Y. *Professor.* (**5,** 1945)

Smith, Susan Gower, M.A. Duke Univ., Durham, N. C. *Assoc. in Nutrition, School of Medicine.* (**5,** 1939)

Smith, Sybil L., A. M. 1421 44th St., N. W., Washington, D. C. (**5,** 1940)

Smith, Wilbur Kenneth, M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Anatomy.* (**1,** 1939)

Smith, Willie W., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1,** 1941)

Smithburn, Kenneth C., M.D. Rockefeller Foundation, 49 West 49th St., New York City 20. *Staff Member, Div. of Medicine and Public Health.* (**6,** 1937)

Smolens, Joseph, B.S. Children's Hospital, 1740 Bainbridge St., Philadelphia, Pa. *Staff Member; Asst. Prof. of Bacteriology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1943)

Smythe, C. V., Ph.D. 5000 Richmond St., Philadelphia, Pa. *Head of Biochemistry Lab., Rohm & Haas Co.* (**2,** 1934)

Snape, William J., M.D. 573 Stevens St., Camden, N. J. (**1,** 1948)

Snell, Albert M., M.D. Palo Alto Clinic, 300 Homer St., Palo Alto, Calif. (**4,** 1930)

Snell, Esmond E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin 12. *Prof.* (**2,** 1942; **5,** 1946)

Snider, Ray S., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Anatomy.* (**1,** 1949)

Snyder, Charles D., Ph.D. 4709 Keswick Rd., Baltimore, Md. *Prof. Emeritus of Exper. Physiology, Johns Hopkins Univ.* (**1R,** 1907)

Snyder, Franklin Faust, M.D. Boston Lying-In Hospital, Boston, Mass. (**1,** 1936)

Snyder, John Crayton, M.D. Harvard School of Public Health, 695 Huntington Ave., Boston, Mass. *Prof. and Head of Dept. of Microbiology.* (**6,** 1950)

Snyderman, Selma E., M.D. New York Univ. College of Medicine, Dept. of Pediatrics, New York City 16. *Asst. Prof.* (**5,** 1953)

Sobel, Albert E., Ph.D. Jewish Hospital of Brooklyn, 555 Prospect Pl., Brooklyn 16, N. Y. *Head of Dept. of Biochemistry; Adjunct Prof. of Chemistry, Polytechnic Inst. of Brooklyn; Special Lecturer, N. Y. State Univ. College of Medicine.* (**2,** 1939)

Sober, Herbert A., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head, Unit of Physical and Chromatographic Separations.* (**2,** 1951)

Sobin, Sidney S., M.D., Ph.D. 416 N. Bedford Drive, Beverly Hills, Calif. (**1,** 1949)

Sobotka, Harry, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Dir. of Chemistry Lab.* (**2,** 1932; **5,** 1933)

Solandt, Donald Young, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology in charge of Biophysics, Faculty of Medicine; Prof. and Head of Dept. of Hygiene, School of Hygiene.* (**1,** 1937)

Sollmann, Torald, M.D. 14327 Superior Rd., Cleveland, Ohio. *Prof. Emeritus of Pharmacology, Western Reserve Univ.* (**1R,** 1902; **2R,** 1906; **3R,** 1908)

Solomon, A. K., Ph.D. Harvard Med. School, Biophysical Lab., Boston, Mass. *Asst. Prof. of Physiological Chemistry.* (**1,** 1952)

Solotorovsky, Morris, Ph.D. 111 Rockview Ave., North Plainfield, N. J. *Merck Inst. for Therapeutic Research Rahway, N. J.; Research Assoc. in Chemotherapy.* (**6,** 1946)

Somogyi, Michael, Ph.D. 216 S. Kingshighway, St. Louis, Mo. *Biochemist, Jewish Hospital of St. Louis.* (**2,** 1927)

Sonnenschein, Ralph R., M.D., Ph.D. Univ. of California School of Medicine, Los Angeles 24. *Asst. Prof. of Physiology.* (**1,** 1950)

Soskin, Samuel, M.D., Ph.D. 405 N. Bedford Dr., Beverly Hills, Calif. (**1,** 1930; **5,** 1933)

Spain, Will C., M.D. 116 E. 53rd St., New York City. *Clin. Prof. of Medicine, Post-Grad. Med. School, Columbia Univ.* (**6,** 1923)

Spaulding, Earle H., Ph.D. Temple Univ., School of Medicine, Broad St. at Ontario, Philadelphia 40, Pa. *Prof. and Head of Dept. of Microbiology.* (**6,** 1950)

Spealman, C. R., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Washington 25, D. C. *Chief, Safety Projects Branch.* (**1,** 1940)

Specht, Heinz, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Scientist Director, USPHS* (**1,** 1941)

Spector, Harry, Ph.D. Quartermaster Food and Container Inst. for the Armed Forces, 1849 W. Pershing Rd., Chicago 9, Ill. *Chief, Nutrition Div.* (**5,** 1950)

Speirs, Mary, Ph.D. Georgia Agricultural Exper. Station, Experiment. *Head of Dept. of Home Economics.* (**5,** 1949)

Spencer, Joseph N., Ph.D. Commercial Solvents Corp., 1331 S. First St., Terre Haute, Ind. *Pharmacologist.* (**3,** 1951)

Sperling, Frederick, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Pharmacologist.* (**3,** 1953)

Sperry, Roger W., Ph.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. (**1,** 1945)

Sperry, Warren M., Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City 32. *Principal Research Scientist (Biochemistry); Assoc. Prof. of Biological Chemistry, Columbia Univ.* (**2,** 1929)

Spicer, Samuel S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, USPHS.* (**1,** 1950)

Spiegel, Ernest A., M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. and Head of Dept. of Exper. Neurology.* (**1,** 1936)

Spiegel-Adolf, Mona, M.D. Temple Univ. School

of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Colloid Chemistry.* (**2,** 1933)

Spiegelman, Sol, Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. (**1,** 1946)

Spies, Tom D., M.D. Hillman Hospital, Birmingham, Ala. *Dir. of Nutrition Clinic.* (**3,** 1941; **4,** 1940; **5,** 1938)

Spink, Wesley W., M.D. Univ. of Minnesota Hospital, Minneapolis. *Assoc. Prof. of Medicine, Univ. of Minnesota Med. School.* (**6,** 1940)

Spohn, Adelaide, Ph.D. Elizabeth McCormick Memorial Fund, 1415 E. 57th St., Chicago 37, Ill. *Nutritionist.* (**5,** 1933)

Spoor, Herbert J., Ph.D., M.D. 116 Parsons Blvd., Malba, L. I., N. Y. *Research Assoc. and Asst. Prof. of Dermatology, New York Med. College.* (**1,** 1945)

Sprague, James Mather, Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4, Pa. *Assoc. Prof. of Anatomy.* (**1,** 1953)

Sprinson, David B., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Asst. Prof.* (**2,** 1949)

Sproul, Edith E., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pathology, 630 W. 168th St., New York City 32. *Assoc. Prof.* (**4,** 1941)

Sprunt, Douglas H., M.D. Univ. of Tennessee, Memphis. *Prof. of Pathology; Head of Dept. of Pathology and Bacteriology.* (**4,** 1934; **6,** 1936)

Squibb, Robert L., Ph.D. Instituto Agropecuario Nacional, Jardin Botanico, Guatemala, C. A. *Head of Dept. of Animal Husbandry and Nutrition.* (**5,** 1953)

Stacy, Ralph W., Ph.D. Ohio State Univ., Dept. of Physiology, Hamilton Hall, Columbus 10. *Asst. Prof.* (**1,** 1949)

Stadie, William C., M.D. 821 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4, Pa. *John Herr Musser Prof. of Research Medicine, Univ. of Pennsylvania.* (**2R,** 1922)

Stadtman, Earl R., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Biochemist.* (**2,** 1951)

Stahmann, Mark A., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Assoc. Prof.* (**2,** 1951)

Stamler, Jeremiah, M.D. Michael Reese Hospital, Med. Research Inst., Cardiovascular Dept., Chicago, Ill. *Research Assoc.* (**1,** 1951)

Stanley, Wendell M., Ph.D., Sc.D. Univ. of California, Virus Lab., Berkeley 4. *Prof. of Biochemistry; Dir. of Virus Lab.* (**2,** 1936)

Stannard, James Newell, Ph.D. Univ. of Rochester Med. School, Atomic Energy Project, Rochester 7, N. Y. *Assoc. Prof. of Pharmacology and Radiation Biology.* (**1,** 1938; **3,** 1953)

Stansly, Philip G., Ph.D. Univ. of Wisconsin, Inst. for Enzyme Research, Madison 5, Wis. *Fellow.* (**2,** 1950)

Stare, Fredrick J , Ph.D., M.D. 695 Huntington Ave., Boston 15, Mass. *Prof. and Head of Dept. of Nutrition, Harvard Univ.* (**2,** 1937; **5,** 1942)

Starr, Isaac, M.D Hospital of the Univ. of Pennsylvania, Philadelphia. *Hartzell Research Prof. of Therapeutics.* (**1,** 1929; **3,** 1942)

Stavely, Homer E., Ph.D., D.Sc. Commercial Solvents Corp., Pharmaceutical Research Div., Terre Haute, Ind. *Dir., Pharmaceutical Research.* (**2,** 1952)

Stavitsky, Abram B., Ph.D., V.M.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Microbiology.* (**6,** 1950)

Stavraky, George W., M.D. Univ. of Western Ontario, Med. School, London, Ontario, Canada. *Prof. of Physiology.* (**1,** 1937; **3,** 1944)

Stead, Eugene A., Jr., M.D. Duke Univ., Dept. of Medicine, Durham, N. C. (**1,** 1945)

Stearns, Genevieve, Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof. of Pediatrics.* (**2,** 1932; **5,** 1937)

Stebbins, Robert B., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc., Pathology.* (**4,** 1951)

Steele, J. Murray, M.D. Third (N.Y.U.) Research Div., Goldwater Memorial Hospital, Welfare Island, New York City. *Prof. of Medicine, New York Univ.; Dir. of 3rd Med. Div., Welfare Hospital.* (**1,** 1936)

Steele, Robert, Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, L. I., N. Y. *Biochemist.* (**2,** 1952)

Steenbock, Harry, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2R,** 1912; **5,** 1933)

Stefanini, Mario, M.D., D.T.M.&.H. New England Medical Center, Boston, Mass. *Established Investigator, Am. Heart Assn.* (**1,** 1952)

Steffee, C. Harold, M.D., Ph.D. Natl. Cancer Inst., Pathology Section, Bethesda 14, Md. *Pathologist.* (**4,** 1950)

Steggerda, F. R., Ph.D. Univ. of Illinois, 416 Natural History Bldg., Urbana. *Prof. of Physiology.* (**1,** 1934)

Steigman, Alex J., M.D. 101 W. Chestnut St., Louisville 2, Ky. *Prof. of Child Health, Univ. of Louisville School of Medicine.* (**6,** 1949)

Steigmann, Frederick, M.D. 348 S. Hamlin Ave., Chicago, Ill. *Clin. Assoc. Prof. of Medicine, Univ. of Illinois, College of Medicine; Assoc. Attending Physician, Cook County Hospital.* (**3,** 1942)

Steiman, S. E., Ph.D., M.D. U. S. Naval Hospital, Philadelphia, Pa. (**1,** 1939)

Stein, George J., Ph.D. 406th Med. General Lab. APO 500 %P. M., San Francisco, Calif. *Chief, Dept. of Serology and Blood Bank.* (**6,** 1947)

Stein, S. N., M.D. Naval Med. Research Inst., Bethesda 14, Md. *Head, Physiology Div.* (**1,** 1953)

Stein, William Howard, Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Member, Biochemistry Dept.* (**2,** 1946)

Steinbach, H. Burr, Ph.D. Natl. Science Fndn., Washington 25, D. C. *Asst. Dir. for the Biological and Med. Sciences.* (**1,** 1934)

Steinberg, Bernhard, M.D. Toledo Hospital Inst. of Med. Research, Toledo, Ohio. *Director; Chief Pathologist and Dir. of Labs., Toledo Hospital.* (**4,** 1928; **6,** 1946)

Steiner, Paul E., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1939)

Steinhardt, Jacinto, Ph.D. 4004 Laird Pl., Chevy Chase 15, Md. *Dir., Operations Evaluation Group, Mass. Inst. of Technology.* (**2,** 1939)

Steinhaus, Arthur H., Ph.D. 5315 Drexel Ave., Chicago, Ill. *Prof. of Physiology, George Williams College, Hyde Park.* (**1,** 1928)

Steinhaus, John E., M.D., Ph.D. Univ. of Wisconsin School of Medicine, Dept. of Pharmacology, Madison 6. *Assoc. Prof.* (**3,** 1951)

Stekol, Jakob A., Sc.D. Inst. for Cancer Research, Philadelphia 11, Pa. *Head, Dept. of Physiological Chemistry and Nutrition.* (**2,** 1936; **5,** 1952)

Stepto, Robert C., Army Med. Nutrition Lab., 1849 W. Pershing Rd., Chicago 9, Ill. *Capt. (MC); Research Assoc. and Exper. Pathologist, Div. of Pathology (on military leave from Univ. of Chicago).* (**4,** 1952)

Stern, Joseph R., M.D. New York Univ., College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Pharmacology.* (**2,** 1952)

Stern, Kurt G., Ph.D. Polytechnic Inst. of Brooklyn, 99 Livingston St., Brooklyn 2, N. Y. *Adjunct Prof. of Biochemistry.* (**2,** 1938)

Stetten, DeWitt, Jr., M.D., Ph.D. Public Health Research Inst. of The City of New York, Inc., Foot of E. 15th St., New York City 9. *Chief, Div. of Nutrition and Physiology.* (**2,** 1944)

Stetten, Marjorie R., Ph.D. Public Health Research Inst. of The City of New York, Inc., Foot of E. 15th St., New York City 9. *Assoc., Div. of Nutrition and Physiology.* (**2,** 1947)

Stevens, Carl M., Ph.D. State College of Washington, Dept. of Chemistry, Pullman. *Prof. of Biochemistry.* (**2,** 1951)

Stevens, S. Smith, Ph.D. Harvard Univ., Memorial Hall, Cambridge, Mass. *Prof. of Psychology; Dir. of Psychological Labs.* (**1,** 1937)

Stevenson, James A. F., M.A., M.D.C.M. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. *Prof. and Head, Dept. of Physiology; Hon. Lecturer, Dept. of Med. Research.* (**1,** 1950)

Stewart, Dorothy R., Ph.D. Rockford College, Rockford, Ill. (**1,** 1947)

Stewart, Fred W., M.D. Memorial Hospital, 444 E. 68th St., New York City. *Sr. Pathologist; Prof. of Pathology, Cornell Med. School.* (**4,** 1928)

Stewart, Harold L., M.D. Natl. Cancer Inst., Bethesda, Md. *Sr. Pathologist.* (**4,** 1936)

Stewart, Wellington B., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Pathology.* (**4,** 1950)

Stewart, Winifred Bayard, M.D. 1930 Spruce St., Philadelphia, Pa. *Prof. of Neurology, Woman's Med. College of Pennsylvania.* (**1,** 1941)

Stickney, J. Clifford, Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Assoc. Prof. of Physiology.* (**1,** 1944)

Stiebeling, Hazel K., Ph.D. U. S. Dept. of Agriculture, Washington, D. C. *Dir. of Research in Nutrition and Home Economics.* (**5,** 1933)

Stier, Theodore J. B., Ph.D. Indiana Univ. Med. School, Bloomington. *Assoc. Prof. of Physiology.* (**1,** 1938)

Still, Eugene U., Ph.D. Box 991, Sarasota, Fla. (**1,** 1929)

Stimmel, Benjamin F., Ph.D. Rees-Stealy Clinic Research Fndn., 2001 Fourth Ave., San Diego, Calif. *Director.* (**2,** 1947)

Stock, Aaron H., M.D. Children's Hospital of Pittsburgh, 125 De Soto St., Pittsburgh, Pa. *Assoc. Prof. of Bacteriology and Immunology, Univ. of Pittsburgh School of Medicine.* (**6,** 1947)

Stock, C. Chester, Ph.D. Sloan-Kettering Inst. for Cancer Research, 410 East 68th St., New York City 21. *Chief, Div. of Exptl. Chemotherapy.* (**2,** 1952)

Stockton, Andrew Benton, M.D. 655 Sutter St., San Francisco, Calif. *Asst. Clin. Prof. of Medicine.* (**3,** 1931)

Stoerk, Herbert C., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Cancer Research.* (**4,** 1948)

Stoesser, Albert V., M.D., Ph.D. Univ. of Minnesota Med. School, 616 La Salle Bldg., 7th St. at Marquette, Minneapolis. *Clin. Assoc. Prof. of Pediatrics.* (**6,** 1949)

Stohlman, Edward F., LL.B. Natl. Insts. of Health, Bethesda, Md. *Assoc. Pharmacologist.* (**3,** 1948)

Stokinger, Herbert E., Ph.D. Industrial Hygiene Field Headquarters, Div. of Occupational Health, 1014 Broadway, Cincinnati 2, Ohio. *Chief Toxicologist.* (**3,** 1950; **6,** 1947)

Stokstad, E. L. Robert, Ph.D. Lederle Labs., Pearl

River, N. Y. *Assoc. Dir., Nutrition and Physiology Dept.* (**2,** 1947; **5,** 1942)

Stoland, O. O., Ph.D. 1845 Learnard Ave., Lawrence, Kan. *Prof. of Physiology, Univ. of Kansas.* (**1R,** 1913)

Stoll, Arthur, Ph.D. Sandoz, Inc., Basle, Switzerland. *Pres., Swiss Comm. for Chemistry; Vice Pres. at Large, Internatl. Union of Pure and Applied Chemistry.* (**3,** 1951)

Stone, Gilbert C. H. Ph.D. City College of New York, Dept. of Chemistry, Convent Ave. and 140th St., New York City 31. *Asst. Prof.* (**2,** 1950)

Stone, William E., Ph.D. Univ. of Wisconsin, Dept. of Physiology, Madison. *Assoc. Prof. of Physiology.* (**1,** 1945)

Storer, John B., M.D. Army Med. Research Lab., Fort Knox, Ky. *Radiobiologist, AUS.* (**4,** 1952)

Stormont, Robert T., Ph.D., M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Dir., Div. of Therapy and Research; Sec. of Council on Pharmacy and Chemistry.* (**3,** 1941)

Storvick, Clara A., Ph.D. Oregon State College, School of Home Economics, Corvallis, Ore. *Prof. of Foods and Nutrition.* (**5,** 1947)

Stotz, Elmer H., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Biochemistry.* (**2,** 1939)

Stoughton, Roger W., Ph.D. Mallinckrodt Chemical Works, 3600 N. Second St., St. Louis, Mo. *Research Chemist.* (**3,** 1939)

Stowell, Robert E., M.D., Ph.D. Univ. of Kansas Med. Center, Dept. of Pathology and Oncology, Kansas City 12. *Prof. and Chairman of Dept.* (**4,** 1952)

Strecker, Harold J., Ph.D. 6231 Broadway, Bronx, N. Y. *Assoc. Research Scientist, N. Y. State Psychiatric Inst.* (**2,** 1953)

Strong, Frank M., Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1941)

Struck, Harold Carl, Ph.D. Creighton Univ. School of Medicine, 302 N. 14th St., Omaha 2, Nebr. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1940; **3,** 1952)

Strughold, Hubertus, M.D., Ph.D. School of Aviation Medicine, Dept. of Space Medicine, Randolph Field, Tex. *Prof. and Chief of Dept.* (**1,** 1951)

Stuart, Charles A., Ph.D. 372 Lloyd Ave., Providence, R. I. *Assoc. Prof. of Biology, Brown Univ.* (**6,** 1935)

Stumpf, Paul K., Ph.D. Univ. of California, Div. of Plant Biochemistry, 337 Biochemistry Virus Lab., Berkeley 4. *Assoc. Prof. of Plant Biochemistry.* (**2,** 1950)

Sturgis, Cyrus Cressey, M.D. Simpson Memorial Inst., Ann Arbor, Mich. *Dir. of Thomas Henry Simpson Memorial Inst. for Med. Research; Chairman, Dept. of Medicine, Univ. of Michigan Hospital.* (**4,** 1927)

Sturkie, Paul D., Ph.D. Rutgers Univ., Poultry Science Dept., College of Agriculture, New Brunswick, N. J. *Prof. of Poultry Physiology and Research; Specialist in Poultry Physiology.* (**1,** 1948)

Stutzman, Jacob W., Ph.D., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Vice Pres., Research and Development.* (**1,** 1946; **3,** 1948)

Sugg, John Y., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1938)

Sulkin, S. Edward, Ph.D. Southwestern Med. College, Dallas, Tex. *Prof. and Chairman of Dept. of Microbiology.* (**6,** 1944)

Sullivan, Michael Xavier, Ph.D. Georgetown Univ., Grad. School, 37th & O Sts., N.W., Washington, D. C. *Research Prof. of Chemistry.* (**2R,** 1909)

Sulzberger, Marion B., M.D. 999 5th Ave., New York City. *Prof. and Chairman, Dept. of Dermatology and Syphilology, New York Univ. Post-Grad. Med. School; Dir. of Dermatology and Syphilology, Skin and Cancer Unit and Univ. Hospital, New York Univ.-Bellevue Med. Center.* (**6,** 1936)

Summerson, William H., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Dir., Div. of Metabolic Research.* (**2,** 1942)

Sumner, J. B., Ph.D. Cornell Univ., Ithaca, N. Y. *Dir., Enzyme Chemistry Lab.* (**2R,** 1919)

Sunderman, F. William, M.D., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Dir., Div. of Metabolic Research.* (**2,** 1931)

Sundstroem, Edward S., M.D. % Mrs. Irma Lindh Karlaplan, Stockholm, Sweden. *Prof. Emeritus.* (**2R,** 1919)

Sung, Chen-Yu, Ph.D. Dept. of Pharmacology, Tufts College Med. School, Boston, Mass. *Instr.* (**3,** 1953)

Sure, Barnett, Ph.D. Univ. of Arkansas, Fayetteville. *Head of Dept. and Prof. of Agricultural Chemistry.* (**2,** 1923; **5,** 1933)

Surtshin, Adolph, M.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Asst. Prof. of Physiology and Medicine; Research Assoc. in Gerontology.* (**1,** 1951)

Sutherland, Earl W., Jr., M.D. Western Reserve Univ. School of Medicine, 2109 Adelbert, Cleveland 6, Ohio. *Prof. of Pharmacology.* (**2,** 1950)

Sutherland, George F., M.D. Johns Hopkins Univ., Dept. of Mental Hygiene, 2218 N. Charles St., Baltimore 18, Md. *Chief, Div. of Psychiatric Education & Training.* (**1,** 1939)

Sutton, T. Scott, Ph.D. Ohio State Univ., Columbus. *Asst. Dean, College of Agriculture; Prof. and Chairman, Dept. of Animal Science.* (**5,** 1936)

Svirbely, Joseph L., Ph.D. Univ. of Pittsburgh,

Grad. School of Public Health, Dept. of Occupational Health, Pittsburgh 13, Pa. *Research Assoc.* (**3,** 1945)

Swain, Robert E., Ph.D. 634 Mirada Ave., Stanford Univ., Calif. *Prof. Emeritus of Chemistry.* (**2R,** 1909)

Swann, Howard G., Ph.D. Univ. of Texas Med. School, Dept. of Physiology, Galveston. *Prof. of Physiology.* (**1,** 1940)

Swanson, Marjorie A., Ph.D. Bowman Gray School of Medicine, Dept. of Biochemistry, Winston-Salem 7, N. C. *Asst. Prof.* (**2,** 1950)

Swanson, Pearl P., Ph.D. Iowa State College, Ames. *Asst. Dir., Agric. Exper. Station; Prof. of Nutrition.* (**5,** 1933)

Swanson, William W., M.D. 2376 E. 71st St., Chicago, Ill. *Asst. Prof. of Pediatrics, Northwestern Univ.* (**2,** 1938)

Sweeney, H. Morrow, Ph.D. USAF School of Aviation Medicine, Randolph Air Force Base, Randolph Field, Tex. *Chief, Med. Sciences Group. Col.* (**1,** 1939)

Sweet, J. E., M.D., Sc.D. Unadilla, N. Y. *Prof. Emeritus of Surgical Research, Cornell Univ. Med. College.* (**1R,** 1913)

Swendseid, Marian E., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Home Economics and Physiological Chemistry.* (**2,** 1950)

Swift, Raymond W., Ph.D. Pennsylvania State College, State College. *Prof. and Head of Dept. of Animal Nutrition.* (**5,** 1934)

Swingle, Wilbur Willis, Ph.D. Princeton Univ., Princeton, N. J. *Prof. of Biology.* (**1,** 1924)

Swinyard, Ewart A., Ph.D. Univ. of Utah, Salt Lake City. *Prof. of Pharmacy, School of Pharmacy.* (**3,** 1948)

Sydenstricker, V. P., M.D. Med. College of Georgia, Augusta. *Prof. of Medicine.* (**5,** 1944)

Sykes, Joseph F., Ph.D. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Beltsville, Md. *Physiologist.* (**1,** 1942)

Syverton, Jerome T., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head, Dept. of Bacteriology and Immunology.* (**4,** 1940; **6,** 1947)

Szego, Clara M., Ph.D. Univ. of California, Los Angeles. *Asst. Prof. of Zoology.* (**1,** 1946)

Szent-Gyorgyi, Albert, Ph.D., M.D. Marine Biological Labs., Inst. of Muscle Research, Woods Hole, Mass. *Research Dir.* (**2,** 1949)

Szepsenwol, Josel, M.D. Emory Univ. School of Medicine, Emory University, Ga. *Assoc. Prof. of Anatomy.* (**1,** 1948)

Tabor, Herbert, M.D. Natl. Insts. of Health, Pharmacology Section, Exper. Biology and Medicine Inst., Bethesda 14, Md. *Surgeon, USPHS.* (**3,** 1947)

Tager, Morris, M.D. Emory Univ. School of Medicine, Dept. of Bacteriology, 36 Butler St. S. E., Atlanta, Ga. *Prof. and Chairman of Dept.* (**6,** 1948)

Taggart, John V., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, 630 W. 168th St., New York City 32. *Asst. Prof. of Medicine; Welch Fellow in Internal Medicine, NRC.* (**1,** 1951)

Tahmisian, Theodore N., Ph.D. Argonne Natl. Lab., P.O. Box 299, Lemont, Ill. *Group Leader; Assoc. Biologist.* (**1,** 1951)

Tainter, M. L., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Director.* (**1,** 1929; **3,** 1927)

Talbot, Samuel Armstrong, Ph.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Med. School.* (**1,** 1940)

Taliaferro, Lucy Graves, Sc.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, Chicago 37, Ill. *Voluntary Research Assoc.; Asst. Prof. in Parasitology.* (**6,** 1952)

Taliaferro, William H., Ph.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, Chicago, Ill. *Eliakim H. Moore Distinguished Service Prof. of Parasitology and Chairman of Dept.* (**6,** 1930)

Tannenbaum, Albert, M.D. Michael Reese Hospital, 29th St. & Ellis Ave., Chicago, Ill. *Dir. of Dept. of Cancer Research.* (**4,** 1942)

Tarr, H. L. A., Ph.D. Fisheries Research Board, 898 Richards St., Vancouver, B. C., Canada. *Principal Scientist, Biochemistry Dept.* (**2,** 1950)

Tarver, Harold, Ph.D. Univ. of California, Dept. of Physiological Chemistry, Berkeley 4. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1947)

Tashiro, Shiro, Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Biochemistry.* (**1R,** 1913; **2R,** 1913)

Tatum, Arthur L., Ph.D., M.D. Service Memorial Inst., Univ. of Wisconsin, Madison. *Prof. of Pharmacology.* (**1,** 1913; **3,** 1919)

Tatum, Edward L., Ph.D. Stanford Univ., School of Biological Sciences, Stanford University, Calif. *Prof. of Biology.* (**2,** 1947)

Tauber, Henry, Ph.D. 7 F Glen Lennox, Chapel Hill, N. C. *Sr. Biochemist; Assoc. Prof. of Exper. Medicine, School of Public Health, Univ. of North Carolina.* (**2,** 1933)

Taylor, A. N., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Physiology.* (**1,** 1948)

Taylor, Alton R., Ph.D. Parke, Davis & Co., Detroit 32, Mich. *Research Virologist, Research Div.* (**2,** 1947; **6,** 1943)

Taylor, Charles Bruce, M.D. Univ. of North Carolina, School of Medicine, Dept. of Pathology, Chapel Hill. *Assoc. Prof.* (**1,** 1952; **4,** 1952)

Taylor, Clara Mae, Ph.D. Columbia Univ. Teachers' College, 525 W. 120th St., New York City 27. *Prof. of Nutrition.* (**5,** 1951)

Taylor, Craig L., Ph.D. Univ. of California, Dept. of Engineering, Los Angeles. *Assoc. Prof. of Engineering.* (**1,** 1945)

Taylor, Dermot B., M.B., B.Ch., B.A.O. Univ. of California Med. Center, Los Angeles 24. *Prof. of Pharmacology and Chairman of Dept.* (**3,** 1950)

Taylor, Fred A., Ph.D. 320 E. North Ave., N. S., Pittsburgh, Pa. *Biochemist, Singer Memorial Lab.* (**2,** 1933)

Taylor, Haywood M., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Toxicology and Assoc. Prof. of Biochemistry; Biochemist and Toxicologist to Duke Hospital.* (**4,** 1942)

Taylor, Henry Longstreet, Ph.D. Univ. of Minnesota, School of Public Health, Minneapolis. *Assoc. Prof. of Physiological Hygiene.* (**1,** 1944)

Taylor, John Fuller, Ph.D. Univ. of Louisville, School of Medicine, Dept. of Biochemistry, Louisville 2, Ky. *Prof. and Chairman of Dept.* (**2,** 1944)

Taylor, Julius D., Ph.D. Abbott Labs., Dept. of Pharmacology, North Chicago, Ill. *Chemical Pharmacologist.* (**3,** 1953)

Taylor, M. Wight, Ph.D. New Jersey Agricultural Exper. Station, New Brunswick. *Assoc. Biochemist in Nutrition and Assoc. Prof. of Agricultural Biochemistry, Rutgers Univ.* (**5,** 1944)

Taylor, Norman Burke, M.D. 21 Ardwold Gate, Toronto 10, Ontario, Canada. (**1,** 1922)

Taylor, Richard M., M.D., D.P.H. Naval Med. Research Unit #3, American Embassy, Cairo, Egypt, % O. P. 32 Mail and Dispatch Section, Dept. of Navy, Washington 25, D. C. (**6,** 1949)

Taylor, Robert D., M.D. Clinical Research Div., Cleveland Foundation, Cleveland 6, Ohio. *Member.* (**1,** 1945)

Teague, Robert S., Ph.D., M.D. Medical College of Alabama, Dept. of Pharmacology, Birmingham 5. *Prof. and Chairman of Dept.* (**3,** 1942)

Teeri, Arthur E., Ph.D. Univ. of New Hampshire, Durham. *Assoc. Prof. and Chairman, Dept. of Biological Chemistry.* (**5,** 1953)

Templeton, Roy D., B.S. 133 Handley St., San Antonio, Tex. (**1,** 1935)

Ten Broeck, Carl, M.D. Jackson Lab., Bar Harbor, Me. (**4R,** 1932)

Teply, Lester J., Ph.D. 5058 Lake Mendota Drive, Madison, Wis. *Biochemist, Wisconsin Alumni Research Fndn.* (**2,** 1950)

Tepperman, Jay, M.D. State Univ. of New York College of Medicine, Dept. of Pharmacology, Syracuse, N. Y. *Prof. of Exper. Medicine.* (**1,** 1944; **3,** 1952)

Terplan, Kornel L., M.D. Univ. of Buffalo School of Medicine, Buffalo, N. Y. *Prof. of Pathology and Head of Dept.* (**4,** 1935)

Terry, Roger, M.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Pathology, Rochester 20, N. Y. *Asst. Prof.* (**4,** 1949)

Thannhauser, S. J., M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Sr. Physician; Prof. of Clin. Medicine, Tufts Med. School.* (**2,** 1937)

Thatcher, Jonathan S., M.D., Ph.D. 509 Cypress Ave., San Bruno, Calif. (**1,** 1949)

Thauer, Rudolf, M.D. W. G. Kerckhoff Inst., Bad Nauheim, U. S. Zone, Germany. *Dir.; Prof. and Dir., Dept. of Physiology, Univ. of Giessen.* (**1,** 1949)

Thayer, Sidney Allen, Ph.D. 1402 S. Grand Blvd., St. Louis 22, Mo. *Prof. of Biochemistry, St. Louis Univ. School of Medicine.* (**2,** 1933)

Therman, Per-Olof, M.D. 111 N. 49th St., Philadelphia 39, Pa. *Dir. of Labs., Inst. of Pennsylvania Hosp.* (**1,** 1950)

Thesleff, Stephen, M.D. Caroline Inst., Stockholm, Sweden. *Rockefeller Fellow, Univ. of Illinois College of Medicine.* (**3,** 1953)

Thienes, Clinton H., M.D., Ph.D. Howard Inst. of Med. Research, Huntington Memorial Hosp., Pasadena 2, Calif. *Director.* (**3,** 1928)

Thomas, Arthur W., Ph.D. Columbia Univ., New York City 27. *Prof. of Chemistry.* (**2,** 1924)

Thomas, Byron H., Ph.D. Iowa State College, Ames. *Prof. and Head of Animal Chemistry and Nutrition, Iowa Agric. Exper. Station.* (**5,** 1933)

Thomas, Caroline Bedell, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ. School of Medicine.* (**1,** 1939)

Thomas, J. Earl, M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1922; **3,** 1924)

Thomas, Lewis, M.D. Univ. of Minnesota Med. School, Heart Hospital, Minneapolis. *Prof. of Pediatrics and Medicine.* (**6,** 1950)

Thomas, Lloyd E., Ph.D. Univ. of Missouri, Dept. of Biochemistry, McAlester Hall, Columbia. *Assoc. Prof.* (**2,** 1951)

Thompson, Marvin R., Ph.D. 67 Greenwich Ave., Stamford, Conn. *Pres. and Dir. of Research, Marvin R. Thompson, Inc.* (**3,** 1944)

Thompson, Randall L., Sc.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head, Microbiology Sec.* (**6,** 1937)

Thompson, Richard, M.D. Univ. of Colorado, 4200 E. 9th Ave., Denver 7. *Prof. of Microbiology.* (**6,** 1951)

Thompson, William R., Ph.D. 1 Darroch Rd., Delmar, N. Y. *Sr. Biochemist, Div. of Labs. and Research, New York State Dept. of Health.* (**2,** 1934)

Thomson, David Landsborough, Ph.D. McGill Univ., Montreal, Quebec, Canada. *Prof. of Biochemistry and Dean of Faculty of Grad. Studies.* (**2,** 1929)

Thomson, John D., Ph.D. State Univ. of Iowa, 240 Med. Labs., Iowa City. *Asst. Prof. of Physiology.* (**1,** 1951)

Thorn, George Widmer, M.D. Peter Bent Brigham Hospital, Boston, Mass. *Physician-in-Chief; Prof. of Medicine, Harvard Univ.* (**1,** 1939)

Thorp, W. T. S., D.V.M., M.S. Natl. Insts. of Health, Bethesda, Md. *Chief, Section on Comparative Pathology and Hematology.* (**4,** 1948)

Tidwell, Herbert C., Ph.D. Southwestern Med. School, 2211 Oak Lawn Ave., Dallas, Tex. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1948)

Tillett, William S., M.D. New York Univ. College of Medicine, Dept. of Bacteriology, 477 First Ave., New York City. *Prof. of Medicine.* (**6,** 1927)

Tilt, Jennie, Ph.D. 1011 Lincoln Blvd., Santa Monica, Calif. (**5R,** 1939)

Timiras, Paola S., M.D., Ph.D. Univ. of Montreal, Montreal, Canada. *Asst. Prof. of Physiology.* (**3,** 1952)

Tipson, R. Stuart, D.Sc. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Medicinal Chemistry Fellowship.* (**2,** 1937)

Tipton, Samuel R., Ph.D. Univ. of Tennessee, Dept. of Zoology, Knoxville. *Prof. of Zoology.* (**1,** 1940)

Tislow, Richard, M.D. Wyeth Labs., 900 N. Broad St., Philadelphia 30, Pa. (**1,** 1944; **3,** 1950)

Titus, Harry W., Ph.D. Lime Crest Research Lab., R.F.D. 1, Newton, N. J. *Technical Counsellor and Dir. of Research.* (**2,** 1929; **5,** 1933)

Tobias, Julian M., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Assoc. Prof. of Physiology.* (**1,** 1944)

Tocantins, Leandro Maués, M.D., Jefferson Med. College, Philadelphia, Pa. *Prof. of Clin. & Exptl. Medicine.* (**1,** 1939)

Todd, Wilbert R., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (**2,** 1948; **5,** 1948)

Todhunter, Elizabeth Neige, Ph.D. Univ. of Alabama, University. *Dean, School of Home Economics.* (**5,** 1939)

Toennies, Gerrit, Ph.D. Inst. for Cancer Research and Lankenau Hospital Research Inst., Philadelphia 11, Pa. *Head, Dept. of General Biochemistry.* (**2,** 1934)

Tolbert, N. Edward, Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* (**2,** 1953)

Tolle, Chester D., Ph.D. Federal Security Agency, Food and Drug Admin., Washington, D. C. *Asst. Chief, Div. of Nutrition.* (**5,** 1942)

Toman, James E. P., Ph.D. Michael Reese Hosp., Inst. for Psychosomatic and Psychiatric Research and Training, Chicago, Ill. *Dir. of Neurophysiological Research.* (**1,** 1945; **3,** 1950)

Tomarelli, Rudolph M., Ph.D. Wyeth, Inc., Nutritional Div., Mason, Ingham County, Mich. *Sr. Investigator.* (**2,** 1950; **5,** 1950)

Tomlinson, Wray Joseph, M.D. St. Luke's Hospital, Jacksonville, Fla. *Chief of Labs.* (**4,** 1945)

Tompkins, Edna H., M.D. Cancer Research Inst., New England Deaconess Hospital, 195 Pilgrim Rd., Boston 15, Mass. *Research Assoc.* (**4,** 1941)

Topper, Yale J., Ph.D. Massachusetts Gen. Hosp. Biochemical Research Lab., Boston, Mass, *Research Fellow, Am. Heart Assoc.* (**2,** 1952)

Torda, Clara, Ph.D., M.D. N. Y. State Psychiatric Inst., 722 W. 168th St., New York City 32. *Resident.* (**1,** 1943; **3,** 1944)

Toth, Louis A., Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 13. *Prof. of Physiology.* (**1,** 1940)

Totter, John R., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2,** 1946)

Tourtellotte, Dee, D.Sc. Charles B. Knox Gelatin Co., 4th and Erie Sts., Camden 2, N. J. *Research Dir.* (**5,** 1935)

Touster, Oscar, Ph.D. Vanderbilt Univ., School of Medicine, Nashville, Tenn. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Tower, Sarah Sheldon, M.D., Ph.D. 11 E. Chase St., Baltimore 2, Md. (**1,** 1932)

Trager, William, M.D., Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Assoc. Member.* (**4,** 1947)

Traub, Frederick B., M.D. 405 E. 72nd St., New York City 28. *Microbiologist, Jewish Hospital of Brooklyn.* (**6,** 1946)

Travell, Janet, M.D. Cornell Univ. Med. College, New York City. *Assoc. Prof. of Clin. Pharmacology.* (**3,** 1933)

Travis, Lee Edward, Ph.D. Univ. of Southern California, Los Angeles. *Prof. of Psychology and Dir. of Psychological Center; Major, AAF (Yuma, Ariz.).* (**1,** 1929)

Treadwell, Carleton R., Ph.D. George Washington Univ. School of Medicine, Dept. of Biochemistry, 1335 H St., N. W., Washington, D. C. *Prof. of Biochemistry.* (**2,** 1944; **5,** 1949)

Treffers, Henry P., Ph.D. Yale Med. School, Dept. of Microbiology, New Haven, Conn. *Assoc. Prof. of Microbiology.* (**6,** 1942)

Trimble, Harry C., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1929; **5,** 1936)

Trurnit, Hans Joachim, M.D. Med. Labs., Army Chemical Center, Md. *Chief, Physicochemical Br.* (**1,** 1950)

Tschirgi, Robert D., M.D., Ph.D. Univ. of California School of Medicine, Dept. of Anatomy, Los Angeles 24. *Assoc. Prof.* (**1,** 1951)

Tuba, Jules, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alberta, Canada. *Prof.* (**2,** 1950)

Tuft, Louis, M.D. 1530 Locust St., Philadelphia, Pa. *Asst. Prof. of Medicine, Temple Univ. Med. School; Chief of Clinic of Allergy and Applied Immunology, Temple Univ. Hospital.* (**6,** 1928)

Tullis, John Louis, Cmdr, MC. U. S. Navy, Office of Naval Research, % Fleet Post Office, New York City. *Med. Liaison Officer.* (**4,** 1952)

tum Suden, Caroline, Ph.D. Med. Labs., Army Chemical Center, Md. *Pharmacologist, Neurology Br.* (**1,** 1936)

Tunturi, Archie Robert, Ph.D. Univ. of Oregon Med. School, Portland. *Asst. Prof. of Anatomy.* (**1,** 1946)

Tuohy, Edward B., M.D. 4801 La Canada Verdugo Rd., La Canada, Calif. (**3,** 1941).

Turner, Abby H., Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**1R,** 1928)

Turner, Robert A., Ph.D. State Univ. of New York at New York City College of Medicine, Brooklyn 2. *Assoc. Prof. of Biochemistry.* (**2,** 1952)

Tuttle, Waid Wright, Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1925)

Tyler, Albert, Ph.D. California Inst. of Technology, Pasadena, Calif. *Assoc. Prof. of Embryology.* (**6,** 1946)

Tyler, David B., Ph.D. Univ. of Puerto Rico School of Medicine, San Juan 22. *Prof. of Pharmacology.* (**1,** 1943; **3,** 1951)

Tytell, Alfred A., Ph.D. Sharp & Dohme, Inc., Antibiotics Dept., West Point, Pa. *Research Assoc.* (**2,** 1951; **6,** 1950)

Udenfriend, Sidney, Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Dept. of Chemical Pharmacology, Bethesda 14, Md. *Biochemist.* (**2,** 1950)

Umbreit, Wayne W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Asst. Dir.* (**2,** 1947)

Underkofler, Leland A., Ph.D. Iowa State College, Dept. of Chemistry, Ames. *Professor.* (**2,** 1953)

Ungar, Georges, M.D., D.Sc. Univ. of Illinois College of Medicine, Dept. of Physiology, 1853 W. Polk St., Chicago 12. *Research Assoc.* (**1,** 1950)

Ungar, Lester J., M.D. New York Univ. Post Grad. Med. School, 1192 Park Ave., New York City 18. *Assoc. Prof. of Clin. Medicine.* (**6,** 1952)

Unna, Klaus R. W., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof., Dept. of Pharmacology.* (**1,** 1941; **3,** 1944; **5,** 1942)

Upton, Morgan, Ph.D. Rutgers Univ., Dept. of Psychology, New Brunswick, N. J. (**1,** 1934)

Urban, Frank, Ph.D., M.D. 302 Northern Bldg., Green Bay, Wis. *Physician and Surgeon; Acting Health Commissioner, City of Green Bay.* (**2,** 1932)

Utter, Merton F., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland, Ohio. *Assoc. Prof.* (**2,** 1946)

Vahlteich, Ella McCollum, Ph.D. 310 Walnut St., Englewood, N. J. (**5,** 1933)

Valle, J. R., M.D. Escola Paulista de Medicina, Caixa Postal 7144, Sao Paulo, Brazil. *Prof. of Pharmacology.* (**3,** 1947)

Van Arman, C. G., Ph.D. G. D. Searle and Co., Box 5110, Chicago 80, Ill. *Group Leader, Renal Research.* (**3,** 1953)

Van Bruggen, John T., Ph.D. Univ. of Oregon Med. School, Portland. *Assoc. Prof. of Biochemistry* (**2,** 1952)

Vander Brook, Milton J., Ph.D. The Upjohn Co., Kalamazoo 99, Mich. *Pharmacologist.* (**3,** 1950)

Vanderscheer, James, Ch. E. Lederle Labs., Inc., Pearl River, N. Y. *Research Chemist.* (**6,** 1946)

Van Dyke, H. B., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St. New York City 32. *Hosack Prof. of Pharmacology.* (**1,** 1925; **3,** 1927)

van Harreveld, Anthonie, M.D. California Inst. of Technology, Pasadena. *Prof. of Physiology.* (**1,** 1941)

Van Liere, Edward J., M.D., Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Prof. of Physiology and Dean.* (**1,** 1927)

Van Maanen, Evart Florus, Ph.D. Univ. of Cincinnati, College of Medicine, Dept. of Pharmacology, Eden and Bethesda Aves., Cincinnati 19, Ohio. *Asst. Prof.* (**3,** 1951)

Van Middlesworth, Lester, Ph.D. Univ. of Tennessee, Memphis. *Instr. in Physiology.* (**1,** 1948)

Van Slyke, Donald D., Ph.D., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Chemist, Med. Dept.; Counselor, Lilly Research Grants; Member Emeritus, Rockefeller Inst.* (**2,** 1908)

van Wagenen, Gertrude, Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof.* (**1,** 1932)

van Wagtendonk, Willem J., Ph.D. Indiana Univ., Dept. of Zoology, Bloomington. *Professor.* (**2,** 1946)

Van Winkle, Walton, Jr., M.D. Ethicon Suture Labs., Research Dept., New Brunswick, N. J. *Dir. of Research.* (**3,** 1939)

Varney, Philip L. Washington Univ. School of Medicine, St. Louis, Mo. *Asst. Prof. of Bacteriology.* (**6,** 1948)

Vars, Harry M., Ph.D. Univ. of Pennsylvania Med. School, Harrison Dept. of Surgical Research, Philadelphia. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935; **5,** 1935)

Velick, Sidney Frederick. Washington Univ.

School of Medicine, Dept. of Biochemistry, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Asst. Prof. of Biochemistry.* (**2,** 1946)

Vennesland, Birgit, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Assoc. Prof.* (**2,** 1944)

Venning, Eleanor H., Ph.D. Univ. Clinic, Royal Victoria Hospital, Pine Ave., Montreal, Quebec, Canada. *Asst. Prof. of Exptl. Medicine, McGill Univ.; Research Fellow, Royal Victoria Hosp.* (**2,** 1938)

Vestling, Carl Swensson, Ph.D. Univ. of Illinois, Noyes Lab., Urbana, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1946)

Vickery, Hubert B., Ph.D. Connecticut Agric. Exper. Station, New Haven. *Biochemist in Charge, Dept. of Biochemistry; Lecturer in Physiological Chemistry, Yale Univ.* (**2,** 1923)

Victor, Joseph, M.D. Camp Detrick, Frederick, Md. *Chief, Pathology Branch.* (**4,** 1935)

Villee, Claude A., Jr., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1948)

Virtue, Robert W., Ph.D., M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 7. *Acting Head, Div. of Anesthesiology.* (**2,** 1939)

Visscher, Frank E., Ph.D. Upjohn Co., Kalamazoo 99, Mich. *Research Scientist, Dept. of Pharmacology and Endocrinology.* (**1,** 1947)

Visscher, Maurice B., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Physiology.* (**1,** 1927)

Visser, Donald W., Ph.D. Univ. of Southern California, Los Angeles 7. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Voegtlin, Carl, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Lecturer in Pharmacology.* (**1R,** 1908; **2R,** 1908; **3R,** 1908)

Vogel, F. Stephen, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof. of Pathology.* (**4,** 1951)

Vogel, Peter, M.D. 51 East 90th St., New York City, N. Y. (**6,** 1951)

Volkin, Elliot, Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Sr. Biochemist.* (**2,** 1953)

von Frisch, Karl. Zoological Inst., Univ. of Munich, Munich, Germany. (**1H,** 1952)

von Haam, Emmerich, M.D. Ohio State Univ., Columbus. *Prof. of Pathology.* (**4,** 1938)

von Magnus, Herdis, M.D. State Serum Inst. Copenhagen, Denmark. *Virologist.* (**6,** 1952)

Von Oettingen, W. F., M.D., Ph.D. Natl. Insts. of Health, Lab. of Physical Biology, Exper. Biology and Medicine Inst., Bethesda, Md. *Med. Officer, Toxicology.* (**3,** 1925)

Voris, LeRoy, Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec., Food and Nutrition Board.* (**5,** 1949)

Vorwald, Arthur J., Ph.D., M.D. Saranac Lake, N. Y. *Dir., Edward L. Trudeau Foundation and Saranac Lab.* (**4,** 1937)

Vos, Bert J., Ph.D., M.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Asst. Chief, Dept. of Pharmacology.* (**3,** 1941)

Wachstein, Max, M.D. St. Catherine's Hospital, Brooklyn, N. Y. *Dir. of Lab.; Research Asst., Mt. Sinai Hospital.* (**4,** 1947)

Waddell, James, Ph.D. Grasselli Chemicals Dept., E. I. du Pont de Nemours and Co., Wilmington 98, Del. *Mgr., Technical Development, Nutrition Sec.* (**2,** 1930; **5,** 1935)

Wadsworth, Augustus B., M.D. State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1, N. Y. (**6,** 1920)

Waelsch, Heinrich, M.D., Ph.D. 722 West 168th St., New York City 32. *Prin. Research Pharmacologist, N. Y. State Psychiatric Inst. and Hospital; Assoc. Prof. of Biochemistry, Columbia Univ.* (**2,** 1941)

Wagman, Irving H., Ph.D. Jefferson Med. College, Dept. of Physiology, Philadelphia 7, Pa. *Assoc. Prof. of Physiology.* (**1,** 1946)

Wagner, Robert R., M.D. Yale Univ., Dept. of Medicine, 789 Howard Ave., New Haven, Conn. *Asst. Prof. of Medicine; Assoc. Physician.* (**6,** 1953)

Wagner-Jauregg, Theodor, Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Chief, Medicinal Chemistry Branch.* (**2,** 1951)

Wainio, Walter W., Ph.D. Rutgers Univ., Bureau of Biological Research, Box 515, New Brunswick, N. J. *Assoc. Research Specialist.* (**2,** 1950)

Waisman, Harry A., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Pediatrics, Madison 6. *Assoc. Prof. of Pediatrics.* (**2,** 1944)

Wakeman, Alfred J., Ph.D. Hatfield Hill Rd., Bethany, Conn. *Retired.* (**2R,** 1906)

Wakerlin, George E., Ph.D., M.D. Univ. of Illinois Med. School, 1853 W. Polk St., Chicago. *Prof. and Head of Dept. of Physiology.* (**1,** 1933; **3,** 1934)

Wakim, Khalil G., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant; Prof. of Physiology, Mayo Foundation.* (**1,** 1942; **3,** 1951)

Waksman, Byron H., M.D. 8 Field Rd., Lexington, Mass. *Assoc. Prof.* (**6,** 1950)

Walcott, William W., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Instructor.* (**1,** 1947)

Wald, George, Ph.D. Harvard Univ., Biological Labs., Cambridge 38, Mass. *Prof. of Biology.* (**1,** 1934; **2,** 1950)

Waldron, Jerome M., M.D. Temple Univ. School of Medicine, Dept. of Physiology, Broad and

Ontario Sts., Philadelphia 40, Pa. *Assoc. Prof.* (**1,** 1952)

Walker, A. Earl, M.D. 601 N. Broadway, Baltimore 5, Md. *Prof. of Neural Surgery, The Johns Hopkins Univ.* (**1,** 1950)

Walker, Arthur M., M.D. Veterans Admin., Washington 25, D. C. (**1,** 1932; **3,** 1939)

Walker, Burnham S., Ph.D., M.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston, Mass. *Prof. of Biochemistry.* (**2,** 1940)

Walker, Harry A., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Walker, Sheppard M., Ph.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville, Ky. *Assoc. Prof. of Physiology.* (**1,** 1946)

Wall, Patrick David, M.A., B.M., B.Ch. Massachusetts Inst. of Technology, 20A 213, Cambridge. *Instructor.* (**1,** 1953)

Wallen-Lawrence, Zonja, Ph.D. 4534 W. Pine Blvd., St. Louis 8, Mo. (**2,** 1937)

Walter, Annabel W. 86–42 251st St., Bellerose 6, N. Y. *Bacteriologist.* (**6,** 1946)

Walter, Carl W., M.D. 721 Huntington Ave., Boston, Mass. *Asst. Clin. Prof. of Surgery, Harvard Med. School; Surgeon, Peter Bent Brigham Hosp.* (**4,** 1942)

Walters, Orville S., Ph.D., M.D. 1272 Medford Ave., Topeka, Kan. *Physician.* (**1,** 1936)

Walton, Robert P., Ph.D., M.D. Med. College of the State of South Carolina, Charleston. *Prof. of Pharmacology.* (**3,** 1933)

Walton, Seth T., V.M.D., Ph.D. Lab., Veterans Hospital, Oteen, N. C. *Bacteriologist; Dir. of Labs. and Research.* (**6,** 1936)

Walzer, Matthew, M.D. 20 Plaza St., Brooklyn, N. Y. *Attending in Allergy, Jewish Hospital of Brooklyn.* (**6,** 1924)

Wang, Chi Che, Ph.D. U. S Veterans Admin. Hospital, Hines, Ill. *Research Biochemist in charge of Metabolic Lab.; Assoc. Prof. of Dept. of Biochemistry, Northwestern Univ. Med. School, Chicago, Ill.* (**2,** 1922; **5,** 1933)

Wang, Shih-Chun, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Physiology.* (**1,** 1943; **3,** 1952)

Wangeman, Clayton P., M.D. Broadway Med. Center, Associated Anesthesiologists, Seattle, Washington. (**3,** 1946)

Wangensteen, Owen Harding, M.D. Univ. Hospital, Minneapolis 14, Minn. *Prof. of Surgery, Univ. of Minnesota.* (**1,** 1947; **4,** 1931)

Ward, Arthur A., Jr., M.D. Univ. of Washington, School of Medicine, Div. of Neurosurgery, Seattle. *Asst. Prof. of Surgery; Head of Div.* (**1,** 1949)

Ward, Robert, M.D. New York Univ. College of Medicine, Dept. of Pediatrics, 477 First Ave., New York City 16. *Professor.* (**6,** 1951)

Ward, Walter E., Ph.D., M.D. Cutter Labs., Fourth and Parker Sts., Berkeley 10, Calif. *Assoc. Med. Dir.* (**6,** 1947)

Ware, Arnold G., Ph.D. Los Angeles County Hospital, Main Lab., 1200 N. State St., Los Angeles 33, Calif. *Head Chemist; Assoc. Prof., Dept. of Biochemistry, Univ. of Southern California.* (**2,** 1949)

Warner, Emory D., M.D. Med. Labs. Bldg., Iowa City, Ia. *Prof. and Head of Dept. of Pathology.* (**4,** 1937)

Warner, Robert C., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Chemistry.* (**2,** 1946)

Warren, James V., M.D. Duke Univ., School of Medicine, Dept. of Medicine, Durham, N. C. (**1,** 1947)

Warren, Joel. 7415 Lynnhurst St., Chevy Chase, Md. *Chief, Virus Research Section, Army Med. Service Grad. School.* (**6,** 1949)

Warren, Marshall R., Ph.D. Mead, Johnson Research Labs., Evansville 21, Ind. *Dir., Div. of Pharmacology.* (**3,** 1948)

Warren, Shields, M.D. 195 Pilgrim Rd., Boston, Mass. *Prof. of Pathology, Harvard Med. School; Dir., Div. of Biology and Medicine, USAEC.* (**4,** 1929)

Wartman, William Bechmann, M.D. Northwestern Univ., 303 East Chicago Ave., Chicago 11, Ill. *Morrison Prof. and Chairman of Dept. of Pathology.* (**4,** 1940)

Wasteneys, Hardolph, Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. and Head of Dept. of Biochemistry.* (**2R,** 1915)

Waterman, Robert E., B.S. Schering Corp., 2 Broad St., Bloomfield, N. J. *Vice-Pres.* (**2,** 1940)

Waters, Ralph Milton, M.D. R. R. #3, Box 456, Orlando, Fla. (**3R,** 1937)

Watson, Barbara K., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Instr. in Bacteriology and Immunology.* (**6,** 1953)

Watson, Cecil J., M.D. University Hospital, Dept. of Medicine, Minneapolis, Minn. *Prof. of Medicine.* (**2,** 1952)

Watson, Dennis W. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis.. *Professor* (**6,** 1949)

Watson, John B., Ph.D. Box 526, Westport, Conn. (**1,** 1907)

Watts, Daniel T., Ph.D. Univ. of West Virginia Med. School, Dept. of Pharmacology, Morgantown. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1950)

Waud, Russell A., M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1931)

Waugh, David F., Ph.D. Massachusetts Inst. of Technology, Dept. of Biology and Biological Engineering, Cambridge. *Assoc. Prof. of Physical Biology.* **(1,** 1943)

Way, E. Leong, Ph.D. Univ. of California Med. Center, San Francisco. *Assoc. Prof. of Pharmacology.* **(3,** 1947)

Wearn, Joseph T., M.D. Lakeside Hospital, Cleveland, Ohio. *Dir. of Medicine; Prof. of Medicine, Western Reserve Univ.* **(1,** 1921)

Weatherby, J. H., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond. *Assoc. Prof. of Pharmacology.* **(3,** 1941)

Weber, Clarence J., M.D., Ph.D. 7365 Pershing Ave., University City 5, Mo. **(2,** 1931)

Webster, Bruce, M.D., C.M. Cornell Univ. Med. College, 525 E. 68th St., New York City. *Assoc. Prof. of Medicine; Assoc. Attending Physician, New York Hospital.* **(5,** 1935)

Wégria, René, M.D. Presbyterian Hospital, Dept. of Medicine, 622 W. 168th St., New York City. *Asst. Prof. of Medicine.* **(1,** 1941; **3,** 1950)

Weichert, Charles K., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Zoology.* **(1,** 1935)

Weichsel, Manfred, M.D. 47–07 41 St., Sunnyside, L. I., N. Y. **(6,** 1953)

Weichselbaum, Theodore E., Ph.D. Washington Univ. School of Medicine, Dept. of Surgery, 4580 Scott Ave., St. Louis 10, Mo. *Asst. Prof. of Experimental Surgery.* **(2,** 1950)

Weil, Alfred J., M.D. The Bronx Hospital, New York City. *Dir. of Dept. of Bacteriology.* **(6,** 1940)

Weil, Arthur, M.D. 115–06 Park Lane South, Kew Gardens, L. I., N. Y. *Consultant, Neuropathology, Veterans Admin.* **(4,** 1940)

Weil, Leopold, Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Chestnut Hill Station, Philadelphia 18, Pa. *Chemist.* **(2,** 1942)

Weil, Marvin Lee, M.D. 612 71st St., Miami Beach, Fla. **(6,** 1950)

Weinhouse, Sidney, Ph.D. Lankenau Hospital Research Inst., Fox Chase, Philadelphia 11, Pa. *Head, Metabolic Chemistry.* **(2,** 1948)

Weir, Everett G., Ph.D. 231 S. 13th Ave., Maywood, Ill. **(1,** 1941)

Weiser, Russell S., Ph.D. Univ. of Washington School of Medicine, Seattle 5. *Dept. of Microbiology, Prof. of Immunology.* **(6,** 1948)

Weiss, Charles, Ph.D., M.D. Albert Einstein Med. Center, Northern Div., York and Tabor Rds., Philadelphia, Pa. *Head, Div. of Microbiology.* **(4,** 1934; **6,** 1920)

Weiss, Emil, M.D., Ph.D. 5036 Bernard St., Chicago, Ill. *Pathologist, People's Hospital.* **(6,** 1927)

Weiss, Paul, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Zoology.* **(1,** 1936)

Weissman, Norman, Ph.D. Maimonides Hospital of Brooklyn, 4802 10th Ave., Brooklyn 19, N. Y. *Chemist to Med. Services; Assoc. Prof. of Medicine, State Univ. of New York College of Medicine, New York City.* **(2,** 1951)

Welch, Arnold D., Ph.D., M.D. Yale Univ. School of Medicine, Dept. of Pharmacology, 333 Cedar St., New Haven 11, Conn. *Prof. and Chairman of Dept.* **(3,** 1942; **5,** 1944; **2,** 1950)

Welch, Henry, Ph.D. U. S. Food and Drug Admin., Rm. 6171 S. Agriculture Bldg., Washington, D. C. *Dir., Div. of Antibiotics.* **(6,** 1932)

Weld, Charles Beecher, M.D. Dalhousie Univ., Halifax, N.S., Canada. *Prof. of Physiology.* **(1,** 1936)

Weld, Mrs. Julia T. Lenox Hill Hosp., 76th St. and Park Ave., New York 21. *Research.* **(6,** 1920)

Welker, William H., Ph.D. 534 N. Elmwood Ave., Oak Park, Ill. *Prof. Emeritus of Biological Chemistry, Univ. of Illinois College of Medicine.* **(2R,** 1906)

Weller, Carl Vernon, M.D. 1130 Fair Oaks Parkway, Ann Arbor, Mich. *Prof. and Chairman of Dept. of Pathology, Univ. of Michigan,* **(4,** 1923)

Weller, Thomas H., M.D. Harvard School of Public Health, Boston, Mass. *Assoc. Prof. of Tropical Public Health.* **(6,** 1952)

Wells, Herbert S., M.D. Veterans Hospital, 54th St. and 48th Ave. S., Minneapolis, Minn. *Dir. of Research* **(1,** 1932)

Wells, Ibert C., Ph.D. State Univ. of New York Med. Center at Syracuse Univ., Dept. of Biochemistry, Syracuse 10. *Asst. Prof.* **(2,** 1952)

Wells, Joseph Albert, M.D., Ph.D. Northwestern Univ. Med. School, Chicago, Ill. *Prof. of Pharmacology.* **(3,** 1944)

Welsh, John H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Assoc. Prof. of Zoology.* **(1,** 1945)

Wendel, William B., Ph.D. Tulane Univ. School of Medicine, 6501 St. Charles Ave., New Orleans 15, La. *Prof. and Chairman, Dept. of Biochemistry.* **(2,** 1932)

Wender, Simon H., Ph.D. Univ. of Oklahoma, Dept. of Chemistry, Norman. *Prof. of Biochemistry.* **(2,** 1953)

Werber, Erna A., Ph.D. 170 W. 73rd St., Apt. 3D, New York City. *Chief Bacteriologist and Mycologist, Jacques Loewe Research Lab.* **(6,** 1948)

Werkman, C. H., Ph.D. Iowa State College, Science Hall, Ames. *Prof. and Head of Dept. of Bacteriology.* **(2,** 1942)

Werle, Jacob M., M.D. 2000 W. 25th St., Cleveland 13, Ohio. **(1,** 1943)

Werner, Harold W., Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, Ohio. *Dir. Pharmacological Research.* **(3,** 1942)

Wertenberger, Grace E., Ph.D. Univ. of Indiana, Dept. of Physiology, Bloomington. **(1,** 1943)

Werthessen, Nicholas T., Ph.D. Southwest Fndn.

for Research and Education, P. O. Box 2296, San Antonio, Texas, *Dir. of Biology Div.; Chairman of Dept. of Physiology and Biochemistry.* (**1,** 1946)

Wertman, Kenneth, Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Prof. of Bacteriology.* (**6,** 1953)

Wertz, Anne W., Ph.D. Univ. of Massachusetts, Nutrition Research Labs., Home Economics Dept., Amherst. *Prof., Research, Home Economics Nutrition.* (**5,** 1950)

Wescoe, W. Clarke, M.D. Univ. of Kansas Med. Center, Kansas City 12. *Prof. of Pharmacology and Exper. Medicine and Dean.* (**3,** 1949)

Wesson, Laurence G., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Staff Member, Div. of Industrial Cooperation.* (**2R,** 1929; **3,** 1932)

Wesson, Laurence G., Jr., Ph.D. New York Univ.-Bellevue Med. Center, Post-Grad. Med. School, Dept. of Medicine, New York City 16. *Assoc. Prof.* (**1,** 1949)

West, Edward S., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (**2,** 1925)

West, Harold D., Ph.D. Meharry Med. College, Nashville 8, Tenn. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1946)

Westerfeld, Wilfred Wiedey, Ph.D. State Univ. of New York, Med. Center at Syracuse Univ., Syracuse 10, N. Y. *Prof. of Biochemistry.* (**2,** 1944)

Westfall, B. A., Ph.D. Univ. of Missouri School of Medicine, Dept. of Physiology and Pharmacology, Columbia. *Prof. of Pharmacology.* (**1,** 1949; **3,** 1950)

Weston, Raymond E., M.D., Ph.D. Montefiore Hospital, Med. Div., New York City 67. *Asst. in Medicine.* (**1,** 1947)

Westphal, Ulrich F., Ph.D. Army Med. Research Lab., Biochemistry Dept., Fort Knox, Ky. *Chief, Protein Section.* (**2,** 1952)

Wetzel, Norman C., M.D. Children's Fresh Air Camp and Hospital of Cleveland, Cleveland Heights 6, Ohio. *Consultant in Growth and Nutrition.* (**5,** 1952)

Weymouth, Frank W., Ph.D. Stanford Univ., Calif. *Prof. and Exec. of Dept. of Physiology.* (**1R,** 1917)

Wheeler, Albert H., M.S., M.S.P.H., Dr.P.H. Univ. of Michigan Hospital, Serology Lab., Ann Arbor. *Asst. Prof.* (**6,** 1950)

Wheeler, George W., M.D. New York Hospital, 525 E. 68th St., New York City. *Asst. Dir.* (**6,** 1920)

Wheeler, Mary W., M.A. New York State Dept. of Health, Div. of Labs. and Research, Albany *Assoc. Bacteriologist.* (**6,** 1933)

Wheelon, Homer, M.D. Univ. of Washington, Seattle. *Prof. of Medicine.* (**1,** 1919)

Whipple, George H., M.D., Sc.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Pathology and Dean of School of Medicine and Dentistry.* (**1,** 1911; **4,** 1913)

White, Abraham, Ph.D. Yeshiva Univ., Albert Einstein College of Medicine, 270 Park Ave., New York City 17. *Prof. and Chairman, Dept. of Biochemistry and Biophysics and Assoc. Dean.* (**2,** 1934; **5,** 1937)

White, Alan G. C., Ph.D. Tulane Univ., Dept. of Biochemistry, New Orleans, La. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

White, Colin, M.S., B. M. Yale Univ., 51 Hillhouse Ave., New Haven, Conn. *Asst. Prof. of Biometry.* (**1,** 1949)

White, Florence R., Ph.D. % Dr. Julius White, Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Biochemist.* (**2,** 1946)

White, Frank D., Ph.D. Univ. of Manitoba, Faculty of Medicine, Bannatyne Ave., Winnepeg, Manitoba, Canada. *Prof. of Biochemistry; Biochemist, Winnipeg General Hospital.* (**2,** 1931)

White, Harvey Lester, M.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. of Physiology.* (**1,** 1923)

White, Julius, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head Chemist.* (**2,** 1937)

White, Paul Dudley, M.D. 264 Beacon St., Boston, Mass. (**3,** 1921)

Whitehair, C. K., Ph.D. Oklahoma A. & M College, Stillwater. *Prof. of Physiology and Animal Nutrition.* (**5,** 1952)

Whitehead, Richard W., M.D. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver. *Prof. of Physiology and Pharmacology.* (**1,** 1933; **3,** 1928)

Whitehorn, William V., M.D. Univ. of Illinois College of Medicine, Chicago. *Assoc. Prof. of Applied Physiology.* (**1,** 1947)

Whittenberger, James L., M.D. Harvard School of Public Health, Dept. of Physiology, 55 Shattuck St., Boston 15, Mass. *Prof. and Head of Dept. of Physiology.* (**1,** 1949)

Wick, Arne N., Ph.D. 615 Rosemont St., La Jolla, Calif. *In charge of research, Scripps Metabolic Clinic.* (**2,** 1951)

Wiener, Alexander S., M.D. 64 Rutland Rd., Brooklyn, N. Y. *Sr. Bacteriologist and Serologist to Office of Chief Med. Examiner of New York City; Head of Transfusion Div., Jewish Hospital of Brooklyn.* (**6,** 1932)

Wiercinski, Floyd J., Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia, Pa. *Asst. Prof. in Physiology.* (**1,** 1950)

Wiersma, Cornelis A. G., Ph.D. California Inst. of Technology, Pasadena. *Prof. of Physiology.* (**1,** 1941)

Wiese, Alvin C., Ph.D. Univ. of Idaho, Dept. of

Agricultural Chemistry, Moscow. *Prof. and Head of Dept.* (**5**, 1950)

Wiese, Hilda F., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. and Consultant in Pediatric Nutrition.* (**5**, 1952)

Wiggers, Carl J., M.D., Sc.D. Cleveland Clinic, 2020 E. 93rd St., Cleveland 6, Ohio. *Prof. Emeritus of Physiology, Western Reserve Univ. Med. School; Hon. Prof. of Physiology, Frank E. Bunts Educational Inst.* (**1**, 1907; **3R**, 1909)

Wiggers, Harold C., Ph.D. Union Univ., Albany Med. College, Dept. of Physiology and Pharmacology, Albany 3, N. Y. *Prof. and Chairman of Dept.* (**1**, 1938)

Wigodsky, Herman S., Ph.D., M.D. 420 E. Houston St., San Antonio 5, Tex. *Instructor.* (**1**, 1943)

Wikler, Abraham, M.D. USPHS Hospital, Lexington, Ky. *Chief, Neuropsychiatric Section.* (*R*) (**3**, 1944)

Wilber, Charles G., Ph.D. Med. Labs., Applied Physiology Branch, Army Chemical Center, Md. *Asst. Chief.* (**1**, 1947)

Wilbur, Karl M., Ph.D. Duke Univ., Dept of Zoology, Durham, N. C. *Prof.* (**1**, 1951)

Wilde, Walter S., Ph.D. Tulane Univ. School of Medicine, Station 20, New Orleans, La. *Prof. of Physiology.* (**1**, 1944)

Wilder, Russell M., Ph.D., M.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Dir.* (**1R**, 1921; **4R**, 1924; **5R**, 1933)

Wilens, Sigmund L. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City 16. *Prof. and Dir. of Pathology.* (**4**, 1952)

Wiley, Frank H., Ph.D. Food and Drug Admin., Dept. of Health, Education and Welfare, Washington 25, D. C. *Chief, Div. of Pharmaceutical Chemistry.* (**2**, 1933)

Wilhelmi, Alfred E., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Prof. and Chairman of Dept. of Biochemistry.* (**2**, 1942)

Wilhelmj, Charles Martel, M.D. Creighton Univ. School of Medicine, Omaha, Neb. *Prof. of Physiology.* (**1**, 1931)

Wilkerson, Vernon A., M.D., Ph.D. Med. Arts Bldg., 61 K St., N. W., Washington, D. C. *Lecturer, Dept. of Physiology, Howard Univ. Med. School.* (**2**, 1936)

Williams, Carroll M., Ph.D., M.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Asst. Prof. of Zoology.* (**1**, 1947)

Williams, George Z. Clinical Center, Dept. of Clinical Pathology, Natl. Insts. of Health, Bethesda 14, Md. *Chief, Dept. of Clinical Pathology.* (**4**, 1952)

Williams, Harold H., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Prof. of Biochemistry.* (**2**, 1938; **5**, 1936)

Williams, Horatio B., M.D., Sc.D. Box 893, Greenwich, Conn. *Dalton Prof. Emeritus of Physiology, Columbia Univ.* (**1**, 1912)

Williams, J. W., Ph.D. Univ. of Wisconsin, Chemistry Bldg., Madison. *Prof. of Chemistry.* (**2**, 1944)

Williams, Jesse N., Jr., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison. *Assoc. Prof.* (**2**, 1951)

Williams, Ray D., M.D. 14 Danfield Rd. (Ladue), Mo. *Asst. Prof. of Clin. Medicine, Washington Univ.* (**5**, 1941)

Williams, Robert Hardin, M.D. Univ. of Washington, Dept. of Medicine, Seattle. *Prof. and Exec. Officer.* (**4**, 1940)

Williams, Robert R., D.Sc. 297 Summit Ave., Summit, N. J. *Dir. of Grants, Research Corp.* (**2R**, 1919; **5**, 1941)

Williams, Roger J., Ph.D. Univ. of Texas, Dept. of Chemistry, 213 Chemistry Bldg., Austin. *Prof. of Chemistry; Dir. of Biochemical Inst.* (**2**, 1931)

Williams, W. Lane, Ph.D. Univ. of Minnesota Med. School, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1**, 1947; **4**, 1947)

Williams, William L., Ph.D. Lederle Labs., Pearl River, N. Y. *Research Biochemist in Charge of Nutrition and Physiological Research.* (**2**, 1951)

Williamson, Martin B., Ph.D. Loyola Univ., School of Medicine, 706 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof.* (**2**, 1953)

Willmon, Thomas L., M.D. U. S. Naval Med. Research Inst., Naval Med. Center, Bethesda, Md. *Capt., MC, USN; Exec. Officer.* (**1**, 1951)

Wills, J. H., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Pharmacology Br.* (**1**, 1943; **3**, 1951)

Wilson, Armine T. Alfred I. DuPont Inst., Wilmington 99, Del. *Chief Bacteriologist; Pediatrician-in-Chief.* (**6**, 1949)

Wilson, David Wright, Ph.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Benjamin Rush Prof. of Physiological Chemistry.* (**1**, 1915; **2**, 1915)

Wilson, Eva D., Ph.D. 256 E. Irvin Ave., State College, Pa. *Prof. and Head of Dept. of Foods and Nutrition, School of Home Economics, Pennsylvania State College.* (**5**, 1947)

Wilson, Irwin B., Ph.D. 3840 Greystone Ave., New York City 63. *Asst. Prof., Columbia Univ., College of Physicians and Surgeons.* (**2**, 1952)

Wilson, J. Walter, Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Chairman of Dept. of Biology; F. L. Day Prof. of Biology.* (**1**, 1949; **4**, 1950)

Wilson, John W., Ph.D. Wright-Patterson Air Force, Aero-Med. Lab., Dayton, Ohio. *Research Physiologist.* (**1**, 1948)

Wilson, P. W., Ph.D. Univ. of Wisconsin, Dept.

of Bacteriology, Madison. *Prof. of Bacteriology.* (**2,** 1939)

Wilson, Robert H., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., 800 Buchanan St., Albany, Calif. *Sr. Pharmacologist.* (**3,** 1937)

Winbury, Martin M., Ph.D. G. D. Searle and Co., Div. of Biological Research, P. O. Box 5110, Chicago 80, Ill. *Pharmacologist.* (**3,** 1952)

Winder, Claude V., Sc.D. Parke Davis and Co., Detroit, Mich. *Research Pharmacologist.* (**1,** 1938; **3,** 1948)

Windle, William Frederick, Ph.D. Baxter Labs., Morton Grove, Ill. *Scientific Dir.* (**1,** 1937)

Wingo, William J., Ph.D. 4703 Marietta Lane, Houston 21, Tex. *Assoc. Biochemist, Univ. of Texas, M.D. Anderson Hospital for Cancer Research.* (**2,** 1953)

Winnick, Theodore, Ph.D. Univ. of Iowa Med. School, Iowa City. *Assoc. Prof. of Biochemistry, Radiation Research Lab.* (**2,** 1946)

Winter, Charles A., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head, Dept. of Pharmacology.* (**1,** 1940; **3,** 1952)

Winter, Irwin Clinton, Ph.D., M.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Clin. Research.* (**3,** 1941)

Winternitz, M. C., M.D. 2126 Connecticut Ave., Washington 8, D. C. (**4,** 1913)

Wintersteiner, Oskar, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Member, Head, Div. of Organic Chemistry.* (**2,** 1930)

Wintrobe, Maxwell Myer, M.D., Ph.D. 175 E. 21st St., S., Salt Lake City 15, Utah. *Prof. and Head, Dept. of Internal Medicine, Univ. of Utah College of Medicine; Dir., Lab. for Study of Hereditary and Metabolic Disorders.* (**4,** 1940)

Winzler, Richard J., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1946)

Wise, George H., Ph.D. North Carolina State College, Dept. of Animal Industry, Raleigh. *Prof. and Head of Animal Nutrition Section.* (**5,** 1951)

Wiseman, Bruce Kenneth, M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. and Chairman of Dept. of Medicine; Asst. Dir. of Med. Research.* (**4,** 1932)

Wislocki, George B., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston, Mass. *Parkman Prof. of Anatomy.* (**1,** 1924)

Wisseman, Charles L., Jr., M.D. Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Chemotherapeutic Research Section.* (**6,** 1952)

Wissler, Robert W., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago 37, Ill. *Assoc. Prof. of Pathology.* (**4,** 1949)

Witebsky, Ernest, M.D. Buffalo General Hospital, 100 High St., Buffalo, N. Y. *Prof. and Head of Dept. of Bacteriology and Immunology.* (**6,** 1935)

Witter, Robert F., Ph.D. Univ. of Rochester School of Medicine, Dept. of Biochemistry, Rochester 20, N. Y. *Asst. Prof.* (**2,** 1951)

Wittich, Fred W., M.D. 401 LaSalle Med. Bldg., Minneapolis 2, Minn. *Sec.-Treas. of American College of Allergists; Chairman of Exec. Committee, International Assoc. of Allergists.* (**6,** 1944)

Wohl, Michael G., M.D. Temple Univ. School of Medicine, Dept. of Medicine, Philadelphia, Pa. *Assoc. Prof.* (**5,** 1953)

Wolbach, S. Burt, M.D. Children's Hospital, Boston, Mass. *Shattuck Prof. Emeritus of Pathological Anatomy, Harvard. Med. School; Dir. of Nutritional Research, Children's Hospital.* (**4,** prior to 1920)

Wolf, Abner, M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Prof. of Neuropathology.* (**4,** 1948)

Wolf, Arnold Veryl, Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Physiologist.* (**1,** 1946)

Wolf, Stewart, M.D. 644 N.E. 14th St., Oklahoma City, Okla. *Prof. and Head of Dept. of Medicine.* (**1,** 1948)

Wolfe, Harold Reclus, Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Zoology.* (**6,** 1952)

Wolff, Harold G., M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Medicine, Cornell Univ. Med. College; Assoc. Attending Physician, New York Hospital.* (**1,** 1930; **3,** 1942)

Wolff, William A., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Assoc. Prof. of Clin. Chemistry and Toxicology.* (**2,** 1947)

Wolfrom, M. L., Ph.D. Ohio State Univ., Dept. of Chemistry, Columbus 10. *Prof. of Chemistry.* (**2,** 1953)

Woll, Ephraim, M.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof. of Pathology; Dir. of Labs., Mary Fletcher Hospital.* (**4,** 1951)

Wollenberger, Albert, Ph.D. Inst. of Neurophysiology, Univ. of Copenhagen, Copenhagen, Denmark. (**3,** 1951)

Wolterink, Lester F., Ph.D. Michigan State College, Dept. of Physiology, East Lansing. *Professor.* (**1,** 1951)

Womack, Madelyn, Ph.D. U. S. Dept. of Agriculture, Agricultural Research Admin., Foods and Nutrition Div., Washington 25, D. C. *Biochemist.* (**5,** 1947)

Wood, Alan C., M.D. Johns Hopkins Hospital, Wilmer Ophthalmological Inst., Baltimore, Md. *Dir. of Inst. and Ophthalmologist-in-Chief; Acting Prof. of Ophthalmology, Johns Hopkins Univ.* (**6,** 1918)

Wood, Earl H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology, Grad. School, Univ. of Minnesota; Consultant in Physiology, Mayo Clinic.* (**1,** 1943; **3,** 1949)

Wood, Harland G., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland 6, Ohio. *Prof. and Chairman of Dept.* (**2,** 1944)

Wood, Horatio C., Jr., M.D., Ph.M. 319 S. 41st St., Philadelphia 4, Pa. *Prof. of Pharmacology, Philadelphia College of Pharmacy and Science. (retired)* (**3R,** 1908)

Wood, John L., Ph.D. Univ. of Tennessee School of Biological Sciences, 875 Monroe Ave., Memphis 3. *Head, Dept. of Biochemistry.*(**2,** 1947)

Woodard, Geoffrey, Ph.D. RFD #3, Herndon, Va. *Pharmacologist; Chief, Pharmacodynamics Br. Food and Drug Administration, Washington, D. C.* (**3,** 1953)

Woodbury, Dixon M., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Asst. Research Prof.* (**3,** 1951)

Woodbury, J. Walter, Ph.D. Univ. of Washington, School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Asst. Prof.* (**1,** 1952)

Woodbury, Lowell A., Ph.D. Atomic Bomb Casualty Commission, APO 182, % Postmaster, San Francisco, Calif. *Chief Biostatistician.* (**1,** 1951)

Woodbury, Robert A., Ph.D., M.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis. *Prof. and Chief of Div. of Pharmacology.* (**1,** 1936; **3,** 1941)

Woodcock, Alan H., Ph.D. Natick QM Research and Development Lab., Natick, Mass. *Head, Biophysics and Instrumentation Units.* (**1,** 1952)

Woods, Ella, Ph.D. 1416 N. 13th St., Boise, Idaho. *Home Economist Emerita, Univ. of Idaho.* (**2R,** 1925; **5,** 1933)

Woods, Lauren A., M.D., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof.* (**3,** 1949)

Woodward, Alvalyn E., Ph.D. Hill St., Chapel Hill, N. C. (**1,** 1932)

Woodyatt, Rollin T., M.D. 237 E. Delaware Place, Chicago, Ill. *Prof. of Medicine, Rush Med. College, Univ. of Chicago.* (**2R,** 1912)

Wooley, Jerald G. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda, Md. *Sr. Biologist.* (**6,** 1949)

Woolley, D. Wayne, Ph.D., M.D. (Hon.) Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City, *Member.* (**2,** 1946; **5,** 1941)

Woolsey, Clinton N., M.D. Univ. of Wisconsin, Service Memorial Insts., Madison. *Charles Sumner Slichter Research Prof. of Neurophysiology.* (**1,** 1938)

Workman, William G., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Dir., USPHS.* (**6,** 1952)

Wortis, S. Bernard, M.D. New York Univ. College of Medicine, Dept. of Psychiatry, New York City 16. *Prof. and Chairman of Dept. of Psychiatry; Dir. of Psychiatric Div. of Bellevue Hospital.* (**1,** 1947)

Wright, Angus, M.D. 1414 S. Hope St., Los Angeles 15, Calif. *Pathologist, California Hospital.* (**4,** 1935)

Wright, Arthur W., M.D. Albany Med. College, New Scotland Ave., Albany, N. Y. *Prof. of Pathology and Bacteriology.* (**4,** 1941)

Wright, Charles Ingham, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Pharmacologist, USPHS.* (**1,** 1935; **3,** 1936)

Wright, Claude-Starr, M.D. Ohio State Univ., Room 100, Kinsman Hall, Columbus 10. *Asst. Prof.* (**6,** 1953)

Wright, Ernest B., Ph.D. Univ. of Rochester, School of Medicine and Dentistry, Rochester 20, N. Y. *Instr. in Physiology.* (**1,** 1952)

Wright, George G., Ph.D. Camp Detrick, Frederick, Md. *Chief, Special Procedures Branch, S-Div.* (**6,** 1943)

Wright, George W., M.D. St. Luke's Hospital, 11311 Shaker Blvd., Cleveland 4, Ohio. *Head, Dept. of Med. Research.* (**1,** 1952)

Wright, Harold N., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. of Pharmacology.* (**3,** 1931)

Wright, Lemuel D., Ph.D. Sharp and Dohme, Inc., Research Div., West Point, Pa. *Dir. of Research in Microbiological Chemistry.* (**2,** 1946; **5,** 1946)

Wright, Paul A., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. *Asst. Prof.* (**1,** 1950)

Wright, Sydney L., Ph.D. Fox Hill Farm, Jamestown, R. I. (**2,** 1933)

Wu, Hsein, Ph.D., S.B. 5 Maplewood St., Watertown, Mass. *Visiting Prof. of Biochemistry, on leave from Med. College of Alabama.* (**2,** 1950)

Wulff, V. J., Ph.D. Syracuse Univ., Dept. of Zoology, Syracuse, N. Y. *Prof. and Chairman of Dept. of Zoology.* (**1,** 1949)

Wulzen, Rosalind, Ph.D. Oregon State College, Corvallis. *Prof. Emeritus of Zoology.* (**1R,** 1916)

Wyckoff, Ralph W. G., Ph.D. USPHS, Natl. Insts. of Health, Bethesda, Md. *Sr. Scientist.* (**6,** 1940)

Wyman, Jeffries, Jr., Ph.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Assoc. Prof. of Zoology.* (**1,** 1928)

Wyman, Leland C., Ph.D. Boston Univ., College of Liberal Arts, 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (**1,** 1927)

Wynne, Arthur M., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto 5, Ontario, Canada. *Prof. of Biochemistry; Head of Dept.* (**2,** 1940)

Wyss, Orville, Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin. *Prof.* (**2,** 1951)

Yager, Robert H., V.M.C. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Lt. Col.; Dir., Veterinary Div.* (**6,** 1950)

Yerkes, Robert M., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. Emeritus of Psychobiology, Yale Univ.* (**1R,** 1904)

Yonkman, Frederick F., Ph.D., M.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Vice President in Charge of Research at Ciba; Lecturer in Pharmacology, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1931)

Youmans, John B., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Dean and Dir. of Med. Affairs.* (**5,** 1948)

Youmans, William Barton, Ph.D., M.D. Univ. of Wisconsin Med. School, Madison 6. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1939; **3,** 1949)

Young, A. G., Ph.D., M.D. 520 Commonwealth Ave., Boston, Mass. (**3,** 1925)

Young, Allan C., Ph.D. Univ. of Washington, Dept. of Physiology and Biophysics, Seattle 5. *Asst. Prof.* (**1,** 1952)

Young, E. G., Ph.D. Natl. Research Council of Canada, Maritime Regional Lab., Halifax, N. S. *Director.* (**2,** 1925)

Youngner, Julius Stuart, M.S., Sc.D. Univ. of Pittsburgh, School of Medicine, Virus Research Lab., Pittsburgh, Pa. *Asst. Research Prof. of Bacteriology.* (**6,** 1950)

Yuile, Charles L., M.D., C.M. Univ. of Rochester School of Medicine and Dentistry. Rochester, N. Y. *Assoc. Prof. of Pathology.* (**4,** 1941)

Zabin, Irving, Ph.D. Univ. of California School of Medicine, Dept. of Physiological Chemistry, Los Angeles 24. *Asst. Prof.* (**2,** 1953)

Zamecnik, Paul, M.D. Massachusetts General Hospital, Boston 14, Mass. *Assoc. Prof. of Medicine.* (**2,** 1950)

Zamenhof, Stephen, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Biochemistry, 630 West 168th St., New York City 32. *Asst. Prof.* (**2,** 1951)

Zapata-Ortiz, Vicente, M.D., D.M. Faculty of Medicine, Apartado No. 2694, Lima, Peru. *Prof. of Pharmacology.* (**3,** 1951)

Zapp, John A., Jr., Ph.D. 916 Harper Ave., Drexel Hill, Pa. *Asst. Dir., Haskell Lab. of Industrial Toxicology, E. I. duPont de Nemours & Co.* (**1,** 1950)

Zarrow, M. X., Ph.D. Purdue Univ., Dept. of Biological Sciences, Lafayette, Ind. *Prof. of Zoology.* (**1,** 1949)

Zechmeister, L., Dr. Ing. California Inst. of Technology, Pasadena. *Prof. of Organic Chemistry.* (**2,** 1941)

Zeckwer, Isolde T., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Pathology.* (**1,** 1934; **4,** 1927)

Zeidman, Irving, M.D. Univ. of Pennsylvania Med. School, Dept. of Pathology, Philadelphia. *Asst. Prof.* (**4,** 1949)

Zeldis, Louis J., M.D. Univ. of California, Med. Center, Dept. of Pathology, Los Angeles 24. *Assoc. Prof.* (**4,** 1945)

Zeller, E. Albert, M.D., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11. *Prof. of Biochemistry.* (**2,** 1951)

Zichis, Joseph, Ph.D. Markham Labs., 9246 S. Vincennes Ave., Chicago 20, Ill. *Dir.* (**6,** 1951)

Zierler, Kenneth L., M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Asst. Prof., Environmental Medicine; Instr. in Medicine, Johns Hopkins Univ.* (**1,** 1951)

Zilversmit, D. B., Ph.D. Univ. of Tennessee, Dept. of Physiology, Memphis 3. *Assoc. Prof.* (**1,** 1949)

Zimmerman, Harry M., M.D. Montefiore Hospital, Gun Hill Rd., New York City 67. *Chief, Lab. Div.; Prof. of Pathology, College of Physicians and Surgeons, Columbia Univ.* (**4,** 1933)

Zirkle, Raymond E., Ph.D. Univ. of Chicago, Inst. of Radiobiology and Biophysics, Chicago, Ill. *Prof. of Radiobiology.* (**1,** 1948)

Zittle, Charles A., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist; Section Chief, Protein Div.* (**2,** 1946)

Zubrod, Charles G., M.D. Firmin Desloge Hosp., 1325 So. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Medicine, St. Louis Univ.* (**3,** 1952)

Zucker, Marjorie B., Ph.D. New York Univ. College of Dentistry, Dept. of Physiology, 209 E. 23rd St., New York City 10. *Asst. Prof.* (**1,** 1947)

Zweifach, Benjamin W., Ph.D. New York Univ., College of Arts and Sciences, Dept. of Biology. New York City 3. (**1,** 1945)

Zwemer, Raymund L., Ph.D. 5003 Battery Lane, Bethesda 14, Md. *Chief, Science Div., Library of Congress, Washington, D. C.* (**1,** 1930)

SUMMARY OF MEMBERSHIP

The American Physiological Society	1380
American Society of Biological Chemists	1042
American Society for Pharmacology and Experimental Therapeutics	579
The American Society for Experimental Pathology	393
American Institute of Nutrition	410
The American Association of Immunologists	441
Total membership	4245

DECEASED MEMBERS

Boothby, Walter M. (**1R,** 1915; **2,** 1920; **3R,** 1923; **4R,** 1924) July 4, 1953
Brand, Erwin (**1,** 1951; **2,** 1929) July 11, 1953
Clausen, Samuel Wolcott (**2,** 1922) December 29, 1952
Cohen, Barnett (**2,** 1935) October 21, 1952
Cohn, Edwin J. (**1,** 1919; **2,** 1919) October 1, 1953
Durrant, Edwin P. (**1R,** 1928) January 28, 1953
Ellis, Max Mapes (**1,** 1923) August 26, 1953
Elser, William J. (**6R,** 1920) 1952
Felton, Lloyd D. (**6R,** 1926) September 11, 1953
Goldfarb, Walter (**1,** 1938) June 4, 1953
Greaves, J. D. (**2,** 1938) April 14, 1953
Guterman, Henry S. (**1,** 1949) August 6, 1953
Hammett, Frederick S. (**1R,** 1920; **2R,** 1917) April 7, 1953
Hart, E. B. (**2,** 1910; **5R,** 1933) March 12, 1953
Hober, Rudolph (**1R,** 1936) September 5, 1953
Hussey, Raymond. (**4,** 1927) April 15, 1953
Jeans, P. C. (**5,** 1937) 1953
King, Charles Edwin (**1,** 1916) November 16, 1952
Longcope, Warfield T. (**3R,** 1921; **4,** 1913; **6R,** 1923) April 25, 1953
Lyall, Harold W. (**6,** 1937) January 3, 1953
Mattill, Henry A. (**1,** 1913; **2,** 1909; **5R,** 1933) March 30, 1953
Mendenhall, Walter L. (**1R,** 1915; **3R,** 1917) January 18, 1953
Munro, Muriel Platt (**2,** 1948) July 12, 1953
Pennington, Mary Engle (**2,** 1908) December 27, 1952
Pike, Frank H. (**1,** 1907) November 13, 1953
Quinby, William C. (**1R,** 1916) December 31, 1952
Rogers, Charles G. (**1R,** 1911) October 12, 1950
Sabin, Florence R. (**1R,** 1923) October 1953.
Swift, Homer (**6R,** 1920) September 24, 1953
Weed, Lewis H. (**1R,** 1919) December 21, 1952
Wilson, Frank. (**4,** 1925) September, 11, 1952

LIST OF MEMBERS BY LOCATION

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Santa Barbara

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S. Raffel, 6
O. H. Robertson, 4R
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E. L. Tatum, 2
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California—Unclassified

H. J. Almquist, 2, 5
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P. A. Cavelti, 6
G. W. Clark, 2R
M. C. D'Amour, 1
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K. F. Fink, 2
C. Gruber, 1R, 3
O. L. Huddleston, 1
H. Kabat, 1
R. A. Kocher, 2R
W. S. Lawrence, 3
E. M. MacKay, 1
E. Oppenheimer, 3
J. R. Poppen, 1
A. T. Rasmussen, 1
A. M. Snell, 4
E. B. Tuohy, 3

COLORADO

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UNIV. OF COLORADO

M. H. Block, 4
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W. B. Draper, 1, 3
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J. H. Holmes, 1
G. K. Lewis, 5
R. C. Lewis, 2, 5R
C. A. Maaske, 1
C. G. Mackenzie, 1, 2, 5
J. F. MacKenzie, 2
J. B. McNaught, 4
G. Meikiejohn, 6
R. M. Mulligan, 4
D. L. Smith, 3
R. Thompson, 6
R. W. Virtue, 2
R. W. Whitehead, 1, 3

DENVER—UNCLASSIFIED

Da Costa, Esther, 1, 5
T. E. Friedemann, 2, 5

Colorado—Unclassified

B. O. Barnes, 1
J. M. Beazell, 1
H. Bourquin, 1
H. J. Corper, 2R
E. S. Fetcher, 1
F. X. Gassner, 1
C. R. Schmidt, 1

CONNECTICUT

Greenwich

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W. F. Loomis, 2
H. B. Williams, 1

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H. F. Pierce, 1
S. E. Pond, 1
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New Haven

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C. I. Bliss, 3
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YALE UNIV.

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W. Bergmann, 2
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D. M. Bonner, 2
D. D. Bonnycastle, 3
C. H. Bunting, 4
C. E. Carter, 2
H. G. Cassidy, 2
G. R. Cowgill, 1, 2, 5
D. C. Darrow, 2
J. M. R. Delgado, 1
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L. T. Fairhall, 2R
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J. F. Fulton, 1
N. J. Giarman, 3
R. H. Green, 6
H. S. N. Greene, 4
H. W. Haggard, 1, 2
R. G. Harrison, 1
D. I. Hitchcock, 2
D. M. Horstmann, 6
M. E. Howard, 4, 6
W. A. Krehl, 2, 5
H. Lamport, 1
C. N. H. Long, 1, 2
E. B. Man, 2
J. L. Melnick, 2, 6
W. R. Miles, 1
L. N. Nahum, 1
J. S. Nicholas, 1
J. C. Opsahl, 2
J. R. Paul, 4, 6
E. Racker, 2
P. D. Rosahn, 4
S. Simmonds, 2
G. H. Smith, 6
H. P. Treffers, 6
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J. Orloff, 1
W. I. Patterson, 2
N. E. Price, 2
W. A. Randall, 6
J. C. Reid, 2
M. E. Reid, 5
S. M. Rosenthal, 3
R. E. Scantlebury, 1
W. C. Schneider, 2
R. O. Scow, 1
W. H. Sebrell, Jr., 2, 5
A. Seidell, 2R
A. M. Shanes, 1
J. A. Shannon, 1, 3
M. J. Shear, 2, 3
M. Silverman, 2
F. Smith, 1
W. W. Smith, 1
R. G. Smith, 3
H. A. Sober, 2
H. Specht, 1
F. Sperling, 3
S. S. Spicer, 1
E. R. Stadtman, 2
C. H. Steffee, 4
H. L. Stewart, 4
E. F. Stohlman, 3
H. Tabor, 3
W. T. S. Thorp, 4
C. D. Tolle, 5
S. Udenfriend, 2
W. F. Von Oettingen, 3
B. J. Vos, 3
H. Welch, 6
F. R. White, 2
J. White, 2
R. M. Wilder, 1R, 4R, 5
F. H. Wiley, 2
G. Z. Williams, 4
J. G. Wooley, 6
W. G. Workman, 6
C. I. Wright, 1, 3
R. W. G. Wyckoff, 6

U. S. Government—Unclassified

W. V. Consolazio, 2
B. Davidow, 3
B. G. King, 1
P. G. LeFevre, 1
L. Levin, 2
P. B. Pearson, 2, 5
C. R. Spealman, 1
H. B. Steinbach, 1
A. M. Walker, 1, 3
G. Woodard, 3
R. L. Zwemer, 1

District of Columbia—Unclassified

L. Carmichael, 1
H. W. Chalkley, 1
E. de Savitsch, 4
D. D. Donahue, 3
W. R. Duryee, 1
J. F. Fazekas, 3
M. H. Friedman, 1
M. Harris, 2
L. W. Hazleton, 3
D. B. Jones, 2R, 5R
L. G. Lederer, 1
H. L. Ley, Jr., 6
G. B. Roth, 1R, 3R
S. L. Smith, 5
J. Steinhardt, 2
J. Warren, 6

FLORIDA

Miami

Univ. of Miami

W. A. D. Anderson, 4
C. Brooks, 1, 3
D. H. Cook, 2
W. B. Deichmann, 3
C. E. Lane, 1
E. Larson, 1, 3
G. T. Lewis, 2
V. H. Moon, 4
W. G. Moss, 1
J. L. Radomski, 3
G. C. Ring, 1

Miami—Unclassified

C. A. Cary, 2R
N. Glickman, 1
J. J. Griffitts, 6
L. G. Rowntree, 1R, 2R, 3R
M. L. Weil, 6

Tallahassee

Florida State Univ.

K. Dittmer, 2
F. R. Hunter, 1
M. R. Sandels, 5

Florida—Unclassified

N. R. Blatherwick, 1, 2R, 5
G. R. Crisler, 1
T. J. Cunha, 5
G. K. Davis, 5
C. W. Duval, 4
W. H. Eddy, 2R, 5R
A. Graybiel, 1
P. B. Hawk, 1, 2
J. W. Jobling, 4R
K. S. Lashley, 1
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E. U. Still, 1
W. J. Tomlinson, 4
R. M. Waters, 3R

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Emory Univ.

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M. Tager, 6

Augusta

Med. College of Georgia

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W. K. Hall, 2
W. F. Hamilton, 1
J. W. Remington, 1
S. A. Singal, 2
V. P. Sydenstricker, 5

Emory University

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J. H. U. Brown, 1
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S. W. Gray, 1
J. Haldi, 1
M. Hines, 1
G. C. Knowlton, 1
J. L. Morrison, 3
E. Papageorge, 2
A. P. Richardson, 3
J. A. Russell, 1
J. Szepsenwol, 1
H. A. Walker, 3
A. E. Wilhelmi, 2

Georgia—Unclassified

G. Bachmann, 1R
J. H. Birnie, 1
C. E. Hamilton, 1
E. C. Jungck, 1
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C. C. Shepard, 6
M. Speirs, 5

HAWAII

Honolulu

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W. A. Gortner, 2
A. R. Lamb, 2, 5
C. D. Miller, 5
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IDAHO

Moscow

Univ. of Idaho

T. B. Keith, 5
A. C. Wiese, 5
E. Woods, 2R, 5

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D. W. MacCorquodale, 2
A. E. Osterberg, 2
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L. W. Roth, 1, 3
J. R. Schenck, 2
J. D. Taylor, 3

American Med. Assn.

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Argonne Natl. Lab.

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Army, Med. Nutrition Lab. & Food & Container Inst.

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Michael Reese Hosp.

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J. W. Moulder, 2
W. D. Neff, 1
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T. Porter, 5
F. W. Putnam, 2
H. T. Ricketts, 1
R. Rustigan, 6
I. Sandiford, 2, 5
B. S. Schweigert, 2, 5
R. W. Sperry, 1
P. E. Steiner, 4
L. G. Taliaferro, 6
W. H. Taliaferro, 6
J. M. Tobias, 1
B. Vennesland, 2
P. Weiss, 1
R. W. Wissler, 4
R. T. Woodyatt, 2R
R. E. Zirkle, 1

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R. W. Gerard, 1
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A. Kirschbaum, 4
C. A. Krakower, 4
S. A. Levinson, 4
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E. W. Pelikan, 3
C. C. Pfeiffer, 3
C. L. Pirani, 4
C. B. Puestow, 1
S. B. Raska, 1
C. I. Reed, 1
S. R. Rosenthal, 1, 4
A. A. Schiller, 1
T. R. Sherrod, 3
F. Steigmann, 3
G. Ungar, 1
K. R. W. Unna, 1, 3, 5
G. E. Wakerlin, 1, 3
W. H. Welker, 2R
W. V. Whitehorn, 1
R. J. Winzler, 2

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L. Arnold, 4, 6
F. C. Bing, 2, 5
M. C. H. Brookes, 5
A. F. Coburn, 6
I. Davidson, 4, 6
M. E. Davis, 3
W. J. Dieckmann, 3
J. R. Doty, 2
E. Eagle, 1, 3
N. Ercoli, 3
O. Felsenfeld, 6
C. E. French, 5
T. B. Friedman, 6
J. C. Fritz, 5
F. A. Gibbs, 1
C. E. Graham, 2, 5
E. L. Gustus, 2
B. L. K. Hamilton, 2
M. T. Hanke, 2
E. E. Hays, 2
S. W. Hier, 2
W. S. Hoffmann, 2
E. Jacobson, 1
C. J. Koehn, 5
J. H. Last, 3
A. Leimdorfer, 1
J. P. Marbarger, 1
J. B. Melchior, 2
G. H. Miller, 3
B. Mortimer, 1
A. G. Mulder, 1
L. B. Nice, 1
H. Popper, 4
K. C. Robbins, 6
H. E. Robinson, 5
H. Schwerma, 1
M. J. Shiffrin, 1
A. Spohn, 5
A. H. Steinhaus, 1
E. Weiss, 6
M. B. Williamson, 2
J. Zichis, 6

Galesburg

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S. C. Allen, 1
D. A. Boroff, 6
H. E. Himwich, 1
W. A. Himwich, 1

Urbana

UNIV. OF ILLINOIS

H. E. Carter, 2, 5
T. K. Cureton, Jr., 1
R. M. Forbes, 5
G. S. Fraenkel, 5
I. C. Gunsalus, 2
T. S. Hamilton, 2, 5
R. G. Hansen, 2
L. M. Henderson, 2
M. A. Hinrichs, 1
B. C. Johnson, 2, 5
R. E. Johnson, 1, 2, 5
E. E. King, 3
F. Lanni, 6
J. Larner, 2
H. H. Mitchell, 2R, 5
C. L. Prosser, 1
W. C. Rose, 2, 5
F. Sargent, II, 1
J. M. Smith, 5
S. Spiegelman, 1
F. R. Steggerda, 1
C. S. Vestling, 2

Illinois—Unclassified

M. J. Blish, 2
W. B. Bradley, 1
J. I. Farrell, 1
H. L. Fevold, 2
M. B. Gillis, 5
H. G. Glass, 3
R. P. Herwick, 3
M. K. Horwitt, 2, 5
J. E. Hunter, 5
R. W. Jackson, 2, 5
R. W. Keeton, 1, 3
H. C. Mason, 6
H. A. McGuigan, 1R, 2, 3R
J. W. Mull, 2
S. Natelson, 2
S. E. Owen, 1
E. E. Painter, 1
R. Rhines, 1
E. E. Rice, 5
F. H. Schultz, Jr., 3
E. Smith, 1
D. R. Stewart, 1
C. C. Wang, 2, 5
E. G. Weir, 1
W. F. Windle, 1

INDIANA

Bloomington

INDIANA UNIV.

H. G. Day, 2, 5
P. M. Harmon, 1
F. A. Haurowitz, 2, 6
L. S. McClung, 6
P. A. Nicoll, 1
A. W. Richardson, 1
S. Robinson, 1
H. H. Rostorfer, 1
T. J. B. Stier, 1
W. J. Van Wagtendonk, 2
M. R. Warren, 3
G. E. Wertenberger, 1

Evansville

MEAD JOHNSON AND CO.

W. M. Cox, Jr., 2, 5
B. K. Harned, 2, 3
O. N. Massengale, 2
F. G. McDonald, 2, 5
H. P. Sarett, 2, 5

Indianapolis

ELI LILLY AND CO.

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H. A. Dettwiler, 6
C. M. Gruber, Jr., 3
P. N. Harris, 3
F. G. Henderson, 3
W. A. Jamieson, 6
M. H. Lee, 6
H. M. Powell, 6
M. A. Root, 3

INDIANA UNIV.

D. E. Bowman, 2
V. Cole, 3
R. B. Forney, 3
L. W. Freeman, 1
R. N. Harger, 2, 3
H. R. Hulpieu, 3
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INDIANAPOLIS GENERAL HOSP.

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K. G. Kohlstaedt, 1
R. E. Shipley, 1

INDIANAPOLIS—UNCLASSIFIED

B. E. Abreu, 3
O. D. Bailey, 4
C. A. Bunde, 1

Lafayette

PURDUE UNIV.

A. K. Balls, 2
W. M. Beeson, 5
R. C. Corley, 2
S. M. Hauge, 5
W. A. Hiestand, 1
E. T. Mertz, 2
L. J. Mullins, 1
F. W. Quackenbush, 2
C. Schuck, 5
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Terre Haute

COMMERCIAL SOLVENTS CORP.

J. N. Spencer, 3
H. E. Stavely, 2

Indiana—Unclassified

S. Ansbacher, 2
L. A. Crandall, Jr., 1
Cravens, W. W., 5
C. F. Failey, 2
C. J. Farmer, 2R
R. H. K. Foster, 1, 3
A. H. Free, 2, 5
R. K. Lim, 1, 3
T. D. Luckey, 5
F. Neuwelt, 1
V. B. Scott, 1

IOWA

Ames

IOWA STATE COLLEGE

E. R. Becker, 6
W. Burroughs, 5
D. Catron, 5
J. F. Foster, 2
S. W. Fox, 2
D. French, 2
E. A. Hewitt, 1
R. M. Melampy, 1
P. M. Nelson, 5
C. E. Roderuck, 5
F. Schlenk, 2
R. L. Sinsheimer, 2
P. P. Swanson, 5
B. H. Thomas, 5
L. A. Underkofler, 2
C. H. Werkman, 2

Iowa City

STATE UNIV. OF IOWA

R. Benesch, 2
C. P. Berg, 2, 5
J. H. Bodine 1
J. T. Bradbury, 1
H. Bull, 2
J. R. Carter, 4

S. C. Cullen, 3
K. Daum, 5
T. C. Evans, 1
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G. E. Folk, Jr., 1
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E. G. Gross, 1, 2, 3
H. M. Hines, 1
S. M. Horvath, 1
J. P. Hummel, 2
W. R. Ingram, 1
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R. G. Janes, 1
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H. H. Keasling, 3
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C. D. May, 5
A. P. McKee, 6
L. D. Morris, 3
W. O. Nelson, 1
I. H. Pierce, 3
J. R. Porter, 6
J. I. Routh, 2
G. Stearns, 2, 5
J. D. Thomson, 1
W. W. Tuttle, 1
E. D. Warner, 4
T. Winnick, 2

Iowa—Unclassified

R. Beutner, 1R, 3
A. L. Daniels, 2R, 5R

KANSAS

Kansas City and Lawrence

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J. K. Frenkel, 4
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R. M. Isenberger, 3
K. Jochim, 1
G. N. Loofbourrow, 1
D. J. Mulford, 2
N. P. Sherwood, 6
O. O. Stoland, 1R
R. E. Stowell, 4
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Manhattan

KANSAS STATE COLLEGE

L. Ascham, 5
J. S. Hughes, 2R, 5
M. Kramer, 5
D. B. Parrish, 5

Kansas—Unclassified

N. F. Blau, 2
V. G. Haury, 3
M. S. Pittman, 5
O. S. Walters, 1

KENTUCKY

Fort Knox

ARMY MED. RESEARCH LAB.

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H. Jensen, 2
A. D. Keller, 1
W. F. Kocholaty, 2
G. W. Molnar, 1
J. B. Storer, 1
U. F. Westphal, 2

Lexington

UNIV. OF KENTUCKY

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USPHS

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Louisville

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J. P. Holt, 1
P. K. Knoefel, 3
H. Lawson, 1
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J. F. Taylor, 2
S. M. Walker, 1

Kentucky—Unclassified

W. L. Adams, 3
K. P. McConnell, 2
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LOUISIANA

Baton Rouge and New Orleans

LOUISIANA STATE UNIV.

R. Ashman, 1
G. J. Buddingh, 4
L. Churney, 1
S. H. Durlacher, 1
A. S Harris, 1
R. L. Holman, 4
L. L. Rusoff, 5
L. A. Toth, 1

OCHSNER CLINIC

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TULANE UNIV.

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E. Farber, 4
J. P. Fox, 6
G. A. Goldsmith, 5
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E. D. Kilbourne, 6
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F. N. Martin, Jr., 3
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L. Peters, 3
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M. H. Smith, 6
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MAINE

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MARYLAND

Army Chemical Center

CHEMICAL CORPS MED. LABS.

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E. LeB. Gray, 1
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C. M. Herget, 1
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S. Krop, 1, 3
A. S. Marrazzi, 1, 3
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H. O. Michel, 2
F. W. Oberst, 2, 3
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Baltimore

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C. D. Snyder, 1R
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S. A. Talbot, 1
C. B. Thomas, 1
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R. H. Oster, 1
E. G. Schmidt, 2
D. C. Smith, 1

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M. Landowne, 1
D. I. Macht, 1R, 3
R. K. McDonald, 1
C. W. Price, 6
S. M. R. Reynolds, 1
G. C. Robinson, 1R
N. W. Shock, 1
S. S. Tower, 1

Frederick

U. S. ARMY CHEMICAL CORPS, CAMP DETRICK

J. B. Bateman, 1
A. K. Boor, 2
C. R. Brewer, 2
N. Fell, 6
L. D. Fothergill, 6
F. B. Gordon, 4
A. D. Pollack, 4
M. W. Slein, 2
J. Victor, 4
G. G. Wright, 6

Maryland—Unclassified

M. G. Banus, 1
P. J. Crittenden, 1, 3
J. L. King, 1R
F. D. Maurer, 6
J. D. McCarrell, 1
J. C. Shaw, 1

MASSACHUSETTS

Amherst

UNIV. OF MASSACHUSETTS

A. D. Holmes, 2R, 5R
H. S. Mitchell, 5
A. W. Wertz, 5

Boston Area

BETH ISRAEL HOSP

B. Alexander, 2
H. L. Blumgart, 1
A. S. Freedberg, 1
M. J. Schlesinger, 4, 6

BOSTON CITY HOSP.

W. B. Castle, 4
C. S. Davidson, 5
M. Finland, 6
S. Maddock, 4
G. K. Mallory, 4

BOSTON UNIV.

E. E. Baker, 6
D. L. Belding, 4
W. C. Boyd, 6
E. H. Dearborn, 3
E. M. Follansky, 6
G. P. Fulton, 1
A. H. Hegnauer, 1
E. R. Loew, 1, 3
F. C. Lowell, 6
B. R. Lutz, 1
B. S. Walker, 2
L. C. Wyman, 1

HARVARD UNIV.

E. G. Ball, 2
A. C. Barger, 1
G. P. Berry, 6
J. R. Blair, 1
B. S. Burke, 5
E. S. Castle, 1
A. H. Coons, 6
M. F. Crawford, 1
W. J. Crozier, 1
P. B. Dews, 3
L. Dexter, 1
M. D. Eaton, 6
J. T. Edsall, 2
J. F. Enders, 6
S. Farber, 4
B. G. Ferris, Jr., 1
R. M. Ferry, 2
A. P. Fishman, 1
C. H. Fiske, 2
A. Forbes, 1
W. H. Forbes, 1
J. L. Gamble, 2R, 5
O. Gates, 4
R. P. Geyer, 5
A. Goldstein, 3
W. T. Goodale, 1
R. O. Greep, 1
D. R. Griffin, 1
R. E. Gross, 4
F. R. Gurd, 2
J. H. Hanks, 6
A. B. Hastings, 1, 2, 5
F. W. Haynes, 1
D. M. Hegsted, 5
F. L. Hisaw, 1
R. H. Hubbard, 2
M. L. Karnovsky, 2
O. Krayer, 3
E. M. Landis, 1
C. Liu, 6
C. P. Lyman, 1
B. Magasanik, 2
G. V. Mann, 5
J. Mayer, 5
R. A. McFarland, 1
J. Mead, 1
D. Minard, 1
J. H. Mueller, 2, 4, 6
P. L. Munson, 2
J. P. O'Hare, 4
J. R. Pappenheimer, 1
A. Pope, 2
G. H. Parker, 1R
D. S. Riggs, 3
S. L. Robbins, 4
H. F. Root, 5
S. J. Sarnoff, 1
J. H. Shaw, 5
F. F. Snyder, 1
J. C. Snyder, 6
A. K. Solomon, 1
F. J. Stare, 2, 5
S. S. Stevens, 1
G. W. Thorn, 1
H. C. Trimble, 2, 5
C. A. Villee, Jr., 2
G. Wald, 1, 2
C. W. Walter, 4
S. Warren, 4
B. K. Watson, 6
T. H. Weller, 6
J. H. Welsh, 1
J. L. Whittenberger, 1
C. M. Williams, 1
G. B. Wislocki, 1
S. B. Wolbach, 4
J. Wyman, Jr., 1

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W. Bauer, 1
H. K. Beecher, 1, 3
M. A. B. Brazier, 1
L. Dienes, 6
L. L. Engel, 2
I. D. Frantz, Jr., 2
J. Gergely, 2
L. Lasagna, 3
F. Lipmann, 2
I. T. Nathanson, 1
F. M. Rackemann, 6
Y. J. Topper, 6
P. Zamacnik, 2

MASSACHUSETTS INST. OF TECH.

R. S. Harris, 5
J. C. R. Licklider, 1
W. S. McCulloch, 1
G. A. Miller, 1
F. O. Schmitt, 1
I. W. Sizer, 1
P. D. Wall, 1
D. F. Waugh, 1
L. G. Wesson, 2R, 3

NEW ENGLAND DEACONESS HOSP.

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E. P. Joslin, 5R
H. B Kenton, 6
E. H. Tompkins, 4

TUFTS COLLEGE

P. Bernfeld, 2
A. Canzanelli, 1
H. N. Christensen, 2
B. B. Clark, 3
W. H. Fishman, 2
Z. Hadidian, 1
J. M. Hayman, Jr., 1, 3
W. E. Knox, 2
T. H. Li, 3
D. Rapport, 1
K. D. Roeder, 1
M. Stefanini, 1
C.-Y. Sung, 3
S. J. Thannhauser, 2

BOSTON AREA—UNCLASSIFIED

F. L. Adler, 6
F. N. Allan, 4
E. B. Astwood, 1
E. A. Brown, 6
C. F. Essig, 1
C. Floyd, 6
J. Folch, 2
H. S. Forbes, 1R
E. H. Frieden, 2
G. P. Grabfield, 3R
M. G. Gray, 3
A. Gulick, 1R, 5R
K. C. D. Hickman, 2
H. L. Higgins, 1, 5
J. Ipsen, Jr., 6
J. M. Looney, 2
J. W. Mavor, 1R
F. H. McCrudden, 2R
B. F. Miller, 2
Z. B. Miller, 2
A. M. Pappenheimer, 4
J. H. Pratt, 1, 3, 4
L. Rane, 6
J. F. Ross, 4
G. Schmidt, 2
C. E. Schradieck, 6
P. D. White, 3
A. G. Young, 3

Shrewsbury

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R. I. Dorfman, 2
M. Hayano, 2
O. M. Hechter, 1
H. Hoagland, 1
G. Pincus, 1
F. G. K. Savard, 2

South Hadley

MT. HOLYOKE COLLEGE

C. Haywood, 1
J Muus, 2
A. H. Turner, 1R

Woods Hole

MARINE BIOLOGICAL LABS.

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A. P. Mathews, 1R, 2R
P. F. Scholander, 1
A. Szent-Gyorgyi, 2

Massachusetts—Unclassified

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V. C. Dewey, 2
C. K. Drinker, 1
F. Elmadjian, 1
H. Freeman, 1
H. E. Henschel, 1
J. O. Holmes, 2, 5
R. G. Hoskins, 1R
P. V. Karpovich, 1
G. W. Kidder, 2
S. D. Kramer, 6
S. A. Matthews, 1
F. W. Maurer, 1
H. E. Munsell, 5
E. A. Pinson, 1
T. S. Potter, 6
F. H. Pratt, 1R
A. C. Redfield, 1
O. W. Richards, 1
M. Sampson, 5
E. V. Smith, 6
B. H. Waksman, 6
A. H. Woodcock, 1
H. Wu, 2

MICHIGAN

Ann Arbor

UNIV. OF MICHIGAN

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B. L. Baker, 1
J. W. Bean, 1
F. H. Bethell, 4
W. D. Block, 2
D. F. Bohr, 1
C. R. Brassfield, 1
T. M. Brody, 3
D. E. S. Brown, 1
G. C. Brown, 6
J. P. Chandler, 2, 5
A. A. Christman, 2
K. W. Cochran, 3
J. W. Conn, 5
F. M. Davenport, 6
E. F. Domino, 3
H. C. Eckstein, 2
R. C. Elderfield, 2
T. Francis, Jr., 4, 6
R. L. Garner, 2
R. Gesell, 1
S. W. Hoobler, 1
M. W. Johnston, 2, 5
R. L. Kahn, 4, 6
H. B. Lewis, 1, 2, 5
L. H. Louis, 2
L. Miller, 2
M. Nickerson, 1, 3
F. G. Novy, 1R, 2R, 4R, 4H, 6H
W. J. Nungester, 6
S. Roseman, 2
M. H. Seevers, 1, 3
C. C. Sturgis, 4
C. V. Weller, 4
A. H. Wheeler, 6
L. A. Woods, 3
P. A. Wright, 1

Detroit

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P. D. Bartlett, 2
D. H. Basinski, 2
V. G. Behrmann, 1
O. H. Gaebler, 2
F. W. Hartman, 4
G. A. Logrippo, 6
J W. Rebuck, 4

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A. C. Bratton, Jr., 3
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G. Chen, 3
A. J. Glazko, 1
O. Kamm, 2R
J. C. Mathies, 2
D. A. McGinty, 1
I. W. McLean, Jr., 6
J. J. Pfiffner, 1, 2, 5
A. R. Taylor, 2, 6
C. V. Winder, 1, 3

WAYNE UNIV

V. A. Drill, 1, 3
E. Gardner, 1
H. W. Hays, 3
R. M. Johnson, 2
C. G. Johnston, 1
A. C. Kuyper, 2
W. O. Maddock, 1
A. U. Orten, 5
J. M. Orten, 2, 5
T. L. Patterson, 1
D. J. Sandweiss, 1
W. H. Seegers, 1, 2
A. H. Smith, 2, 5

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I. M. Hoobler, 2, 5
P. A. Kober, 2R

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W. D. Brewer, 5
D. C. Cederquist, 5
W. D. Collings, 1
M. Dye, 2, 5
R. J. Evans, 5
R. M. Herbst, 2
C. A. Hoppert, 5
C. F. Huffman, 5
R. W. Luecke, 5
J. Meites, 1, 5
M. A. Ohlson, 5
E. P. Reineke, 1
L. F. Wolterink, 1

Kalamazoo

UPJOHN CO.

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G. F. Cartland, 2
W. A. Freyburger, Jr., 3
W. M. Govier, 3
M. E. Greig, 3
W. J. Haines, 2
R. W. Heinle, 5
M. H. Kuizenga, 2
C. E. Meyer, 2
M. J. Vander Brook, 3
F. E. Visscher, 1

Michigan—Unclassified

S. H. Bartley, 1
M. B. Chenoweth, 3
W. H. Funderburk, 3
R. Y. Gottschall, 6
O. M. Gruhzit, 4
C. J. Herrick, 1R
D. D. Irish, 3
E. C. Mahon, 4
W. F. McLimans, 6
C. W. Muehlberger, 3
C. L. Schneider, 1
G. N. Smith, 2
R. M. Tomarelli, 2, 5

MINNESOTA

Minneapolis

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W. D. Armstrong, 2
A. B. Baker, 4
C. P. Barnum, Jr., 2
E. T. Bell, 4
R. N. Bieter, 3
E. A. Boyden, 1
E. B. Brown, Jr., 1
J. Brozek, 1
B. Campbell, 1
S. L. Cohen, 2
E. M. Cranston, 3
J. R. Dawson, Jr., 4
G. T. Evans, 1
G. Fahr, 1R, 3
W. F. Geddes, 2

E. Gellhorn, 1
D. Glick, 2
M. Graubard, 1
F. W. Hoffbauer, 4
C. Kennedy, 2R, 5R
A. Keys, 1, 2
J. T. King, 1
F. J. Kottke, 1
W. G. Kubicek, 1
H. C. Lichstein, 2
N. Lifson, 1
V. Lorber, 1
I. McQuarrie, 1, 4, 5
O. H. Schmitt, 1
S. Schwartz, 2
E. Simonson, 1
L. I. Smith, 2
W. W. Spink, 6
A. V. Stoesser, 6
J. T. Syverton, 4, 6
H. L. Taylor, 1
L. Thomas, 6
M. B. Visscher, 1
O. H. Wangensteen, 1, 4
C. J. Watson, 2
D. W. Watson, 6
H. S. Wells, 1
W. L. Williams, 1, 4
H. N. Wright, 3

MINNEAPOLIS—UNCLASSIFIED

H. R. Gutmann, 2
G. A. Matson, 6
F. W. Wittich, 6

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A. Albert, 1
S. Amberg, 1R, 2R, 3R
E. J. Baldes, 1
W. A. Bennett, 4
R. G. Bickford, 1
J. L. Bollman, 4
H. B. Burchell, 1
H. R. Butt, 5
C. F. Code, 1, 3
K. B. Corbin, 1
J. E. Edwards, 4
H. E. Essex, 1, 3
A. Faulconer, Jr., 3
W. H. Feldman, 4
E. V. Flock, 2
W. S. Fowler, 1
J. H. Grindlay, 1
R. A. Groat, 1
G. A. Hallenbeck, 1
J. F. Herrick, 1
G. M. Higgins, 5
W. H. Hollinshead, 1
V. Johnson, 1
A. G. Karlson, 4
N. M. Keith, 1, 3R, 4
E. H. Lambert, 1
J. S. Lundy, 3
T. B. Magath, 1
F. C. Mann, 1, 4R
F. D. Mann, 1, 4
J. D. Mann, 4
H. L. Mason, 2
D. R. Mathieson, 6
K. N. Ogle, 1
C. A. Owen, Jr., 1, 4
M. H. Power, 2
R. W. Ridley, 3
G. M. Roth, 1
A. H. Sanford, 6R
C. Sheard, 1
K. G. Wakim, 1, 3
E. H. Wood, 1, 3

St. Paul

UNIV. OF MINNESOTA

P. D. Boyer, 2
D. R. Briggs, 2
R. Jenness, 2
J. M. Leichsenring, 5
I. E. Liener, 2
W. E. Petersen, 1
M. H. Roepke, 3
M. O. Schultze, 2, 5

Minnesota—Unclassified

E. D. Brown, 1R, 3R
R. T. Holman, 2
W. O. Lundberg, 2
F. W. Wittich, 6

MISSISSIPPI

A. C. Guyton, 1
J. C. Rice, 3

MISSOURI

Columbia

UNIV. OF MISSOURI

B. Bisbey, 5
S. Brody, 2, 5
A. G. Hogan, 2R, 5
D. T. Mayer, 2
D. K. Meyer, 1
B. L. O'Dell, 2, 5
W. S. Platner, 1
G. C. Rau, 1
L. E. Thomas, 2
B. A. Westfall, 1, 3

Kirksville

KIRKSVILLE COLLEGE OF OSTEOPATHY

S. A. Corson, 1
J. S. Denslow, 1
S. F. Howell, 2
I. M. Korr, 1

St. Louis

ST. LOUIS UNIV.

G. O. Broun, 4
E. A. Doisy, 2
E. A. Doisy, Jr., 2
W. H. Elliott, 2
F. E. Franke, 1
A. B. Hertzman, 1
P. A. Katzman, 2
K. K. Kimura, 3
B. J. Luyet, 1
X. J. Musacchia, 1
C. H. Neilson, 2
E. E. Nelson, 3
H. Pinkerton, 4
W. C. Randall, 1
S. A. Thayer, 2
C. G. Zubrod, 3

WASHINGTON UNIV.

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G. H. Bishop, 1
M. V. Buell, 2
S. C. Bukantz, 6
M. Cohn, 2
C. F. Cori, 2, 3
G. T. Cori, 2
R. K. Crane, 2
D. F. Davies, 1
E. W. Dempsey, 1
J. Erlanger, 1R
M. E. Friedkin, 2
R. F. Furchgott, 2, 3
A. S. Gilson, Jr., 1
H. T. Graham, 1, 3
C. G. Harford, 6
A. F. Hartmann, 2
O. Hayaishi, 2
P. Heinbecker, 1
F. E. Hunter, Jr., 2, 3
M. D. Kamen, 2
J. E. Kirk, 2
A. Kornberg, 2
G. L. Kreezer, 1
L. Loeb, 1R, 4
O. H. Lowry, 2, 3
C. V. Moore, 4, 5
R. A. Moore, 4
C. A. Moyer, 1
C. N. Peiss, 1
P. W. Preisler, 2
E. Roberts, 2
E. Ronzoni, 2
A. Roos, 1
T. Rosebury, 6
G. Saslow, 1
J. A. Saxton, Jr., 4
G. M. Schoepfle, 1
H. A. Schroeder, 1
P. A. Shaffer, 2R
R. E. Shank, 2
I. L. Shechmeister, 6
M. Silberberg, 4
R. Silberberg, 4
J. R. Smith, 1
A. Surtshin, 1
P. L. Varney, 6
S. F. Velick, 2
T. E. Weichselbaum, 2
H. L. White, 1
R. D. Williams, 5

ST. LOUIS—UNCLASSIFIED

R. M. Bethke, 2, 5
H. T. Blumenthal, 4
H. Davis, 1
M. S. Fleischer, 4, 6
W. C. Sherman, 5
W. J. Siebert, 4
M. Somogyi, 2
R. W. Stoughton, 3

Missouri—Unclassified

L. L. Eisenbrandt, 3
R. L. Ferguson, 4
C. C. Guthrie, 1R, 3R
S. R. Johnson, 5
Z. Wallen-Lawrence, 2
C. J. Weber, 2

MONTANA

Hamilton

USPHS, ROCKY MOUNTAIN LAB.

D. B. Lackman, 6
Carl L. Larson, 6
S. B. Salvin, 6

NEBRASKA

Lincoln

UNIV. OF NEBRASKA

R. Borchers, 5
R. E. Feeney, 2
H. G. O. Holck, 1R, 3
R. M. Leverton, 5
W. E. Militzer, 2
C. Olsen, Jr., 4
D. M. Pace, 1

Omaha

CREIGHTON UNIV.

J. Ferguson, 1
J. R. Johnson, 1
V. E. Levine, 2
H. C. Struck, 1, 3
C. M. Wilhelmj, 1

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S. Morgulis, 1, 2R
J. R. Schenken, 4

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R. P. Forster, 1
W. Hale, 1R, 3R
J. Nyboer, 1
E. G. Ritzman, 5R
E. S. Robinson, 6
A. E. Teeri, 5

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New Brunswick

RUTGERS UNIV.

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V. Groupe, 6
J. H. Leathem, 1
W. C. Russell, 2, 5
P. D. Sturkie, 1
M. W. Taylor, 5
M. Upton, 1
W. W. Wainio, 2

E. R. SQUIBB AND SONS

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J. D. Dutcher, 2
J. Fried, 2
A. Holm, 6
W. L. Koerber, 6
J. O. Lampen, 2
C. R. Linegar, 3
C. M. McKee, 6
A. E. Schaefer, 5
O. Wintersteiner, 2

NEW BRUNSWICK—UNCLASSIFIED

B. Craver, 3
A. P. Locke, 6
M. A. Reid, 1
W. Van Winkle, Jr. 3

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HOFFMANN-LA ROCHE, INC.

J. X. Bauernfeind, 5
J. M. Cooperman, 5
L. O. Randall, 2, 3
S. H. Rubin, 2, 5
W. B. Schallek, 1
E. L. Sevringhaus, 2, 5

Princeton

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A. M. Chase, 1
E. N. Harvey, 1, 2R
F. H. Johnson, 1
E. C. Kendall, 1, 2R, 4
A. K. Parpart, 1
W. W. Swingle, 1

Rahway

MERCK AND CO.

G. E. Boxer, 2
H. F. Colfer, 1
G. A. Emerson, 5
K. Folkers, 2
J. E. Hawkins, Jr., 1
R. T. Major, 2
H. Molitor, 1, 3
C. W. Mushett, 4
D. F. Opdyke, 1
W. H. Ott, 5
R. L. Peck, 2
H. J. Robinson, 3
J. V. Scudi, 2, 3, 5
O. H. Siegmund, 3
R. H. Silber, 2
M. Solotorovsky, 6
R. B. Stebbins, 4
H. C. Stoerk, 4
W. W. Umbreit, 2
C. A. Winter, 1, 3

Raritan

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P. Levine, 6
N. Millman, 1

Summit

CIBA PHARMACEUTICAL PRODUCTS, INC.

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R. Gaunt, 1
A. J. Plummer, 3
F. F. Yonkman, 3

New Jersey—Unclassified

M. L. Anson, 2
F. M. Berger, 3
R. L. Cahen, 3
G. P. Child, 3
A. F. Coca, 6H
L. W. Famulener, 6
E. C. Hay, 1
J. Hillier, 1
E. E. Howe, 2
J. E. Hyde, 1
G. Lu, 3
B. MacPhillamy, 6
D. Melnick, 2, 5
R. H. Muller, 6
J. R. Oliver, 1, 4
L. Reiner, 2, 6
C. C. Scott, 3
E. L. Scott, 1R, 2R
W. J. Snape, 1
H. W. Titus, 2, 5
D. Tourtellotte, 5
E. M. Valteich, 5
R. E. Waterman, 2
R. R. Williams, 2R, 5

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Albuquerque

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F. G. Hirsch, 1
B. B. Longwell, 2

Los Alamos

U. S. ATOMIC ENERGY COMM.

R. G. Gould, 2
V. L. Koenig, 2
W. H. Langham, 2
C. C. Lushbaugh, 4
S. Shlaer, 1

NEW YORK

Albany

ALBANY MED. COLLEGE

F. C. Ferguson, Jr., 3
A. Knudson, 2, 5
M. N. Levy, 1
H. C. Wiggers, 1
A. W. Wright, 4

N. Y. STATE DEPT. OF HEALTH

R. Brown, 6
J. M. Coffey, 6
S. M. Cohen, 6
G. Dalldorf, 4, 6
I. Gordon, 6
A. H. Harris, 2nd, 6
J. L. Hendry, 6
C. Lange, 6
M. C. Pangborn, 2
M. Shaw, 6
G. M. Sickles, 6
G. R. Sickles, 6
W. R. Thompson, 2
A. B. Wadsworth, 6
M. W. Wheeler, 6

Buffalo

UNIV. OF BUFFALO

E. M. Bridge, 2, 3
G. Clark, 1
J. G. Edwards, 1
F. R. Griffith, Jr., 1, 5
R. S. Hubbard, 1, 2
H. K. Iwamoto, 3
G. F. Koepf, 1
W. Langley, 2
S. Schulman, 2
K. L. Terplan, 4

BUFFALO—UNCLASSIFIED

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A. Golden, 4
D. T. Karzon, 6
E. Neter, 6
J. T. Roberts, 1
E. Witebsky, 6

Ithaca

Cornell Univ.

J. A. Baker, 4
L. J. Daniel, 2
R. W. Dougherty, 1
H. H. Dukes, 1
J. A. Dye, 1
H. M. Hauck, 5
F. A. Johnston, 5
H. S. Liddell, 1
J. K. Looeli, 5
L. A. Maynard, 2R, 5
C. M. McCay, 2, 5
W. L. Nelson, 5
L. C. Norris, 2, 5
A. L. Romanoff, 1
M. L. Scott, 2
S. E. Smith, 5
J. B. Sumner, 2R
H. H. Williams, 2, 5

New York City Area

Brookhaven Natl. Lab.

H. J. Curtis, 1
L. K. Dahl, 4
A. Edelmann, 1
L. E. Farr, 4
M. Gibbs, 2
J. R. Klein, 2
M. E. Koshland, 6
L. F. Nims, 1
R. Steele, 2
D. D. Van Slyke, 2

Brooklyn College

H. G. Albaum, 2
R. H. Cheney, 3
D. Fetter, 1
R. M. Guttman, 1

College of the City of New York

E. Borek, 2
A. J. Goldforb, 1
B. Harrow, 2
A. Mazur, 2
R. W. Root, 1
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H. A. Shoemaker, 3
P. W. Smith, 1, 3
A. N. Taylor, 1
S. H. Wender, 2
C.-S. Wright, 6

OKLAHOMA CITY—UNCLASSIFIED

R. M. Bird, 1
M. N. Huffman, 2
C. D. Kochakian, 1, 2
S. G. Wolf, 1

Stillwater

OKLAHOMA A & M COLLEGE

W. D. Gallup, 2
V. G. Heller, 2R, 5R
R. MacVicar, 2
C. K. Whitehair, 5

OREGON

Corvallis

OREGON STATE COLLEGE

J. S. Butts, 2, 5
V. H. Cheldelin, 2, 5
M. L. Fincke, 5
J. R. Haag, 2, 5
Tsoo E. King, 2
H. M. Krueger, 1, 3
C. A. Storvick, 5
R. Wulzen, 1R

Portland

UNIV. OF OREGON

C. H. Beatty, 1
W. D. Blake, 1
J. M. Brookhart, 1
N. A. David, 3
R. S. Dow, 1
H. F. Haney, 1
C. G. Heller, 1
R. S. Jones, 4
A. B. Lerner, 2
H. S. Mason, 2
E. L. McCawley, 3
A. R. Moore, 1
N. M. Phatak, 3
F. B. Queen, 4
F. J. Reithel, 2
W. R. Todd, 2, 5
A. R. Tunturi, 1
J. T. Van Bruggen, 2
E. S. West, 2

Oregon—Unclassified

A. M. Bahrs, 1
A. C. Kirchof, 3
I. A. Manville, 1
B. T. Scheer, 1

PENNSYLVANIA

Philadelphia Area

CHILDREN'S HOSP.

S. S. Cohen, 2
T. N. Harris, 6
F. Karush, 6
J. Smolens, 6

HAHNEMANN MED. COLLEGE

T. C. Barnes, 1, 3
A. Bondi, Jr., 6
M. J. Boyd, 2
B. A. Briody, 6
B. Calesnick, 3
J. R. DiPalma, 1
W. C. Foster, 1
J. S. Hepburn, 2R
J. F. McClendon, 1R, 2R, 5R
E. A. Reed, 1
J. C. Scott, 1
F. J. Wiercinski, 1

JEFFERSON MED. COLLEGE

A. Cantarow, 1, 3
J. M. Coon, 3
J. O. Crider, 1R
S. A. D'Angelo, 1
R. H. De Meio, 2
M. H. F. Friedman, 1
K. Goodner, 6
C. P. Kraatz, 3
K. S. Lee, 3
F. R. Miller, 4
K. E. Paschkis, 1
W. H. Pearlman, 2
I. J. Pincus, 1
J. J. Schneider, 2
W. H. Summerson, 2
F. W. Sunderman, 2
J. E. Thomas, 1, 3
L. M. Tocantins, 1
I. H. Wagman, 1

LANKENAU HOSP. RESEARCH INST.

M. A. Bennett, 2
T. F. Lavine, 2
G. Medes, 2R
S. P. Reimann, 1, 4
C. Riegel, 2
J. A. Stekol, 2, 5
G. Toennies, 2
S. Weinhouse, 2

SHARP AND DOHME, INC.

L. E. Arnow, 2
R. H. Barnes, 2, 5
K. H. Beyer, 1, 3
W. P. Boger, 3
D. K. Bosshardt, 5
R. A. Harte, 5
J. W. Huff, 2
L. A. Kazal, 2
J. Munoz, 6
A. A. Tytell, 2, 6
L. D. Wright, 2, 5

TEMPLE UNIV.

J. R. R. Bobb, 1
W. E. Chamberlain, 1
D. A. Collins, 1
S. Ellis, 3
J. D. Evans, 1
E. M. Greisheimer, 1
J. A. Harrison, 6
J. A. Kolmer, 6R
S. A. Komarov, 1
A. E. Livingston, 1, 3R
S. H. Lorber, 1
V Menkin, 1, 4, 6
M. J. Oppenheimer, 1
H. W. Robinson, 2
H. Shay, 1
E. H. Spaulding, 6
E. A. Spiegel, 1
M. Spiegel-Adolf, 2
L. Tuft, 6
J. M. Waldron 1
M. G. Wohl, 5

USDA, EASTERN REGIONAL RESEARCH LAB.

T. D. Fontaine, 2
W. G. Gordon, 2
S. R. Hoover, 2
T L McMeekin, 2
L. Weil, 2
C. A. Zittle, 2

UNIV. OF PENNSYLVANIA

W. H. F. Addison, 1R
D. M. Aviado, Jr., 1, 3
C. Bachman, 2
P. E. Boyle, 4
C. Breedis, 4
J. R. Brobeck, 1
J. M. Buchanan, 2
W. W. Chambers, 1
B. Chance, 1, 2
E. R. Clark, 1R
J. K. Clark, 1
D. R. Coman, 4
J. H. Comroe, Jr., 1, 3
M. J. Coon, 2
F. C. Dohan, 1
D. L. Drabkin, 2, 5
R. D. Dripps, 1, 3
J. E. Eckenhoff, 1
M. R. Ehrenstein, 2
W. Ehrich, 4
J. R. Elkinton, 1
L. K. Ferguson, 4
L. B. Flexner, 1, 2
J. A. Flick, 6
E. W. Flosdorf, 6
R. E. Forster II, 1
D. R. Goddard, 2
S. Gurin, 2
P. Gyorgy, 2, 5
J. H. Hafkenschiel, Jr., 1, 3
L. V. Heilbrunn, 1
W. Henle, 6
J. Hughes, 1
M. H. Jacobs, 1
J. H. Jones, 2, 5
R. Jones, Jr., 3
K. Kamijo, 3
G. B. Koelle, 3
E. B. Krumbhaar, 1R. 4
C. J. Lambertsen, 3
W. H. Lewis, 1R
E. Lodholz, 1R
E. R. Long, 4
B. Lucke, 4
F. D. W. Lukens, 1
M. B. Lurie, 4, 6
G. P. McCouch, 1
F. H. McCutcheon, 1
M. McCutcheon, 4
H. Montgomery, 1
S. Mudd, 1, 4, 6
W. M. Parkins, 1
R. Penneys, 1
L. H. Peterson, 1
W. J. Rashkind, 1
H. L. Ratcliffe, 4
I. S. Ravdin, 1, 4
J. G. Reinhold, 2
J. E. Rhoads, 1
A. N. Richards, 1R, 2R, 3R
C. S. Rose, 2
O. Rosenthal, 2
J. L. Roth, 1
C. F. Schmidt, 1, 3
D. Scott, Jr., 1
F. B. Seibert, 2
M. G. Sevag, 2, 6
H. Shapiro, 1
W. B. Shelley, 1
J. C. Small, 4
J. M. Sprague, 1
W. C. Stadie, 2R
I. Starr, 1, 3
P. Therman, 1
H. M. Vars, 2, 5
D. W. Wilson, 1, 2
H. C. Wood, Jr., 3R
I. T. Zeckwer, 1, 4
I. Zeidman, 4

WOMAN'S MED. COLLEGE

P. A. Bott, 2
N. B. Dreyer, 3
M. Fay, 2
H. R. Hafkesbring, 1
M. E. Maxfield, 1
W. B. Stewart, 1

WYETH, INC.

G. E. Farrar, Jr., 3
J. Seifter, 3
R. Tislow, 1, 3

PHILADELPHIA AREA—UNCLASSIFIED

C. Ambrus, 3
J. Ambrus, 3
P. M. Aptekman, 6
J. D. Aronson, 4, 6
C. P. Brown, 6
E. J. Fellows, 3
T. S. Githens, 1R
J. D. Hardy, 1
H. T. Huang, 2
S. Kletzien, 5
D. F. Marsh, 3
G. J. Martin, 2
P. A. Mathis, 3
R. A. McLean, 3
G. L. Miller, 2
L. J. Saul, 1
C. V. Smythe, 2
S. E. Steiman, 1
C. Weiss, 4, 6

Pittsburgh

UNIV. OF PITTSBURGH

L. V. Beck, 1
H. S. Belding, 1
F. S. Cheever, 6
G. J. Cox, 2, 5
L. H. Cretcher, 2R
L. N. Criep, 6
T. S. Danowski, 1
F. J. Dixon, Jr., 4, 6
M. Fuld, 2
W. M. Hammon, 4, 6
K. Hofmann, 2
D. Hooker, 1
T. K. Kruse, 1, 3
G. R. Lacy, 4
M. A. Lauffer, Jr., 2
H. E. Longenecker, 2, 5
P. H. Maurer, 6
R. H. McCoy, 2, 5
W. McEllroy, 2
P. L. McLain, 1, 3
I. A. Mirsky, 1
C. Moses, 1
R. E. Olson, 2, 5
A. G. Renfrew, 2
C. H. W. Ruhe, 1
J. E. Salk, 6
C. B. Shaffer, 3
A. H. Stock, 6
J. L. Svirbely, 3
R. S. Tipson, 2
K. Wertman, 6
J. S. Younger, 6

PITTSBURGH—UNCLASSIFIED

R. Abrams, 2
B. F. Daubert, 2
F. F. Foldes, 3
R. C. Grauer, 4
R. R. Mellon, 6
H. H. Permar, 4
F. A. Taylor, 2

State College

PENNSYLVANIA STATE COLLEGE

A. Black, 5
R. V. Boucher, 5
M. L. Dodds, 5R
R. A. Dutcher, 2R, 5
E. B. Forbes, 1R, 5R
N. B. Guerrant, 2, 5
R. C. Miller, 5
R. W. Swift, 5
E. D. Wilson, 5

Pennsylvania—Unclassified

E. A. Bliss, 6
A. Dury, 1
M. S. McCouch, 1
J. H. Hewetson, 5
E. S. Mendelson, 1
H. M. Peck, 3
S. L. Wright, 2

PUERTO RICO

C. F. Asenjo, 2, 5
J. H. Axtmayer, 5
C. B. Casas, 1
M. Goettsch, 2, 5
R. M. Reinecke, 1
L. J. Roberts, 5
D. B. Tyler, 1, 3

RHODE ISLAND

Providence

BROWN UNIV.

P. F. Fenton, 1, 5
P. H. Mitchell, 2R
C. Pfaffman, 1
L. A. Riggs, 1
F. G. Sherman, 1
C. A. Stuart, 6
J. W. Wilson, 1, 4

SOUTH CAROLINA

Charleston

MED. COLLEGE OF THE STATE OF SOUTH CAROLINA

T. G. Bernthal, 1
M. de V. Cotten, 3
L. I. Goldberg, 3
F. W. Kinard, 1
M. H. Knisely, 1
J. A. Richardson, 3
R. P. Walton, 3

South Carolina—Unclassified

R. S. Cunningham, 1

SOUTH DAKOTA

G. B. Curran, 1
F. E. Kelsey, 3
F. K. Kelsey, 3
O. E. Olson, 2

TENNESSEE

Knoxville and Memphis

UNIV. OF TENNESSEE

R. H. Alden, 1
D. A. Brody, 1
R. V. Brown, 1, 3
S. R. Bruesch, 1
A. D. Dulaney, 6
C. C. Erickson, 4
E. B. Gerheim, 1, 6
W. M. Hale, 4, 6
J. D. Hardy, 1
C. R. Houck, 1
R. C. Little, 1
F. L. MacLeod, 2, 5
D. B. Morrison, 2
T. P. Nash, Jr., 2
R. R. Overman, 1
H. Patrick, 5
J. P. Quigley, 1, 3
H. C. Schmeisser, 4
D. H. Sprunt, 4, 6
S. R. Tipton, 1
L. Van Middlesworth, 1
J. L. Wood, 2
R. A. Woodbury, 1, 3
D. B. Zilversmit, 1

Nashville

MEHARRY MED. COLLEGE

R. J. Cazort, 3
H. Goldie, 6
P. F. Hahn, 1, 4
D. T. Rolfe, 1
H. D. West, 2

VETERANS ADMINISTRATION HOSP.

S. H. Auerbach, 4
F. Gollan, 1
G. R. Meneely, 1, 4
N. S. Olsen, 1, 2

VANDERBILT UNIV.

A. D. Bass, 3
F. R. Blood, 1
M. T. Bush, 3
W. J. Darby, 2, 5
E. W. Goodpasture, 4
C. M. Greer, 3
W. C. Holland, 3
J. M. Johlin, 2R
P. D. Lamson, 1, 3R
H. C. Meng, 1
A. S. Minot, 1
E. V. Newman, 1
R. L. Post, 1
C. C. Randall, 4
B. H. Robbins, 3
C. S. Robinson, 2R
O. Touster, 2
J. B. Youmans, 5

Oak Ridge

OAK RIDGE NATL. LAB.

S. F. Carson, 2
W. E. Cohn, 2
C. L. Comar, 5
D. G. Doherty, 2
J. Furth, 4
J. Z. Hearon, 1
A. Hollaender, 1
G. C. Kyker, 2
C. W. Sheppard, 1
N. E. Tolbert, 2
J. R. Totter, 2
E. Volkin, 2

Tennessee—Unclassified

O. T. Avery, 4, 6R
W. B. Dunham, 6
O. S. Gibbs, 3

TEXAS

Austin

UNIV. OF TEXAS

J. E. Davis, 1, 3
R. E. Eakin, 2
J. W. Foster, 2
E. J. Lund, 1
L. J. Reed, 2
W. Shive, 2
E. E. Snell, 2, 5
R. J. Williams, 2
O. Wyss, 2

College Station

A & M COLLEGE OF TEXAS

J. R. Couch, 2, 5
C. M. Lyman, 2, 5
R. Reiser, 2
L. R. Richardson, 5

Dallas

SOUTHWESTERN MED. SCHOOL

A. Goth, 3
A. Grollman, 1, 3
F. Harrison, 1
R. W. Lackey, 1
E. E. Muirhead, 1, 4
J. J. Quilligan, 6
S. E. Sulkin, 6
H. C. Tidwell, 2

DALLAS—UNCLASSIFIED

S. Haberman, 6
M. F. Mason, 2
F. Pearcy, 1
F. T. Rogers, 1

Galveston

UNIV. OF TEXAS

C. R. Allen, 1
O. A. Bessey, 2, 5
D. B. Calvin, 1, 2
G. A. Emerson, 3
J. C. Finerty, 1
R. L. Gregory, 1
M. M. Guest, 1
C. E. Hall, 1
A. E. Hansen, 4, 5
G. R. Herrmann, 4
C. D. Leake, 1, 3
R. M. Moore, 1
W. W. Nowinski, 1
A. Packchanian, 6
C. M. Pomerat, 1
E. L. Porter, 1
E. J. Poth, 1
R. H. Rigdon, 4
G. R. Seaman, 1
H. G. Swann, 1
H. F. Wiese, 5

Houston

BAYLOR UNIV.

K. L. Burdon, 6
J. A. Greene, 1
B. Halpert, 4
C. A. Handley, 3
H. E. Hoff, 1
R. A. Huggins, 3
P. E. Kellaway, 1
J. H. Moyer, III, 3
R. A. Seibert, 3

UNIV. OF TEXAS

J. Awapara, 2
E. Beerstecher, Jr., 2
E. L. Smith, 1
W. J. Wingo, 2

Randolph Field

U. S. SCHOOL OF AVIATION MEDICINE

H. F. Adler, 1
H. I. Chinn, 1, 3
H. G. Clamann, 1
R. T. Clark, Jr., 1
U. C. Luft, 1
W. K. Noell, 1
H. Strughold, 1
H. M. Sweeney, 1

San Antonio

H. J. Schattenberg, 4
R. D. Templeton, 1
N. T. Werthessen, 1
H. S. Wigodsky, 1

Texas—Unclassified

J. D. Ainslie, 6
H. H. Beard, 2
E. A. Blair, 1
N. C. Hightower, 1
N. S. R. Maluf, 1

UTAH

Salt Lake City

UNIV. OF UTAH

M. D. Armstrong, 2
H. L. Borison, 1, 3
G. E. Cartwright, 5
H. W. Davenport, 1
V. D. Davenport, 1
S. R. Dickman, 2
T. F. Dougherty, 1
E. J. Eichwald, 4
C. Fenning, 1
E. G. Fingl, 3
R. H. Follis, Jr., 4
L. S. Goodman, 1, 3
C. J. Gubler, 5
F. D. Gunn, 4
S. C. Harvey, 3
W. S. Loewe, 3
S. Marcus, 6
L. T. Samuels, 2, 3, 5
E. L. Smith, 2
E. A. Swinyard, 3
D. M. Woodbury, 3

Utah—Unclassified

R. W. Doty, 1
D. A. Greenwood, 3
L. E. Harris, 5
S. P. Hayes, 6
H. H. Hecht, 1
L. W. Jarcho, 1
C. McNeil, 6
M. M. Wintrobe, 4

VERMONT

Burlington

UNIV. OF VERMONT

A. H. Chambers, 1
H. B. Pierce, 2, 5
W. Raab, 1
W. B. Robertson, 2
F. J. M. Sichel, 1
D. J. Smith, 1
E. Woll, 4

Vermont—Unclassified

S. B. Hooker, 6R
A. B. Novikoff, 2

VIRGINIA

Charlottesville

UNIV. OF VIRGINIA

W. P. Anslow, Jr., 2
S. W. Britton, 1
J. R. Cash, 4
A. Chanutin, 2
H. F. Chase, 3
E. L. Corey, 1
A. E Feller, 6
C. L. Gemmill, 1, 2, 3
D. R. H. Gourley, 1
H. Hoch, 2
S. Ludewig, 2
J. F. A. McManus, 4
G. C. Pitts, 1

Richmond

MED. COLLEGE OF VIRGINIA

L. D. Abbott, Jr., 2
F. L. Apperly, 4
L. E. Edwards, 1
E. I. Evans, 1
J. K. Finnegan, 3
E. Fischer, 1
J. C. Forbes, 2
H. B. Haag, 3
E. C. Hoff, 1
E. G. Huf, 1
P. S. Larson, 1, 3
H. McKennis, Jr., 2
J. L. Patterson, Jr., 1
R. W. Ramsey, 1
R. B. Smith, Jr., 3
J. H. Weatherby, 3

Virginia—Unclassified

G. K. Cotts, 3
R. W. Engel, 5
E. L. Jackson, 3

WASHINGTON

Pullman

STATE COLLEGE OF WASHINGTON

D. S. Farner, 1
J. R. Gorham, 4, 6
J. McGinnis, 5
B. C. Schneider, 5
C. M. Stevens, 2

Seattle

UNIV. OF WASHINGTON

V. E. Amassian, 1
H. S. Bennett, 1
L. D. Carlson, 1
J. M. Dille, 3
C. A. Evans, 6
C. A. Finch, 1
D. J. Hanahan, 2
H. N. Harkins, 1
F. M. Huennekens, 2
E. G. Krebs, 2
S. W. Lippincott, 4
T. A. Loomis, 3
A. W. Martin, Jr., 1
H. Neurath, 2, 6
H. D. Patton, 1
J. I. Rowntree, 5
T. C. Ruch, 1
R. F. Rushmer, 1
H. Silvette, 1, 3
A. A. Ward, Jr., 1
R. S. Weiser, 6
H. Wheelon, 1
R. H. Williams, 4
J. W. Woodbury, 1
A. C. Young, 1

Washington—Unclassified

E. D. Clark, 2R
D. D. Feller, 1
J. W. Porter, 2
C. P. Wangeman, 3

WEST VIRGINIA

Morgantown

WEST VIRGINIA UNIV.

D. W. Northup, 1
J. C. Stickney, 1
E. J. Van Liere, 1
D. T. Watts, 3

West Virginia—Unclassified

J. Nichols, 1

WISCONSIN

Madison

UNIV. OF WISCONSIN

L. Anderson, 2
D. M. Angevine, 4
C. A. Baumann, 2, 5
H. Beinert, 2
H. R. Bird, 5
H. D. Bouman, 1
R. H. Burris, 2
R. T. Capps, 3
P. F. Clark, 4, 6
P. P. Cohen, 2
G. W. Crumpton, 3
H. F. Deutsch, 2
C. A. Elvehjem, 2, 5
J. A. E. Eyster, 1, 3R
J. D. Ferry, 2
D. E. Green, 2
S. Grisolia, 2
J. W. Harman, 4
C. Heidelberger, 2
R. C. Herrin, 1
M. R. Irwin, 6
M. J. Johnson, 2
E. B. Kearney, 2
F. L. Kozelka, 3

E. Kun, 3
J. J. Lalich, 4
H. A. Lardy, 2
E. M. Larsen, 1
G. A. Le Page, 2
K. P. Link, 2
H. R. Mahler, 2
R. W. McGilvery, 2
W. H. McShan, 2
W. J. Meek, 1
R. K. Meyer, 1
E. C. Miller, 2
J. A. Miller, 2
P. R. Morrison, 2
G. C. Mueller, 2
Q. R. Murphy, 1
O. S. Orth, 1, 3
H. T. Parsons, 2R, 5R
W. H. Peterson, 2R, 5
P. H. Phillips, 2, 5
G. W. E. Plaut, 2
V. R. Potter, 2
M. S. Reynolds, 5
H. P. Rusch, 4
D. R. Sanadi, 2
C. V. Seastone, Jr., 6
F. E. Shideman, 3
T. P. Singer, 2
M. A. Stahmann, 2
H. Steenbock, 2R, 5
J. E. Steinhaus, 3
W. E. Stone, 1
F. M. Strong, 2
A. L. Tatum, 1, 3
L. J. Teply, 2
H. A. Waisman, 2
J. N. Williams, Jr., 2
J. W. Williams, 2
P. W. Wilson, 2
H. R. Wolfe, 6
C. N. Woolsey, 1
W. B. Youmans, 1, 3

Milwaukee

MARQUETTE UNIV.

H. Beckman, 3
J. C. Bock, 2R
J. Y. Chen, 3
M. Laskowski, 2
A. J. Quick, 2, 3

Wisconsin—Unclassified

H. Levine, 2, 5
V. E. Nelson, 2
B. H. Schlomovitz, 1
F. Urban, 2

WYOMING

J. Blumenstock, 1

CANADA

Alberta

UNIV. OF ALBERTA

A. W. Downs, 1R
H. B. Collier, 2
L. W. McElroy, 5
H. V. Rice, 1
J. Tuba, 2

ALBERTA—UNCLASSIFIED

M. K. McPhail, 3

British Columbia

UNIV. OF BRITISH COLUMBIA

F. C. Black, 1
D. H. Copp, 1
C. E. Dolman, 6
S. M. Friedman, 1
E. S. Goranson, 1
M. A. Kennard, 1

BRITISH COLUMBIA—UNCLASSIFIED

C. A. Forssander, 1
R. A. MacLeod, 2
M. L. Menten, 1R, 4
H. L. A. Tarr, 2

Manitoba

UNIV. OF MANITOBA

G. E Delory, 2
J. Doupe, 1
F. D. White, 2

New Brunswick

E. A. G. Branch, 4
R. J. Collins, 3

Nova Scotia

W. W. Hawkins, 2
C. B. Weld, 1
E. G. Young, 2

Ontario

DEPT. OF HEALTH AND WELFARE

J. A. Campbell, 5
J. Gibbard, 6
W. D. Graham, 3
L. D. Greenberg, 6
S. F. Kitchen, 6
F. C. Lu, 3
J. F. Morgan, 2
C. A. Morrell, 3
L. B. Pett, 5
L. I. Pugsley, 2

QUEEN'S UNIV.

E. M. Boyd, 3
C. H. Ettinger, 1
R. H. More, 1

UNIV. OF TORONTO

E. Baer, 2
C. H. Best, 1, 2
G. C. Butler, 2
J. Campbell, 1
W. R. Campbell, 2
T. G. H. Drake, 5
J. K. W. Ferguson, 1, 3
A. M. Fisher, 2
K. C. Fisher, 1
D. T. Fraser, 6
R. E. Haist, 1
A. W. Ham, 4
W. S. Hartroft, 4
A. Hunter, 2R
W. Kalow, 3
C. C. Lucas, 2
G. H. W. Lucas, 2, 3
J. F. Manery, 1
J. Markowitz, 1
E. W. McHenry, 2, 5
E. C. Robertson, 5
D. A. Scott, 2
E. A. Sellers, 1
C. O. Siebenmann, 3
D. Y. Solandt, 1
H. Wasteneys, 2R
A. M. Wynne, 2

UNIV. OF WESTERN ONTARIO

A. C. Burton, 1
J. B. Collip, 1, 2
C. W. Gowdey, 3
A. B. Macallum, 2R
R. L. Noble, 1
R. J. Rossiter, 2
G. W. Stavraky, 1, 3
J. A. F. Stevenson, 1
R. A. Waud, 3

ONTARIO—UNCLASSIFIED

C. C. Benson, 2R
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SUBJECT INDEX

NOTE: This index is based upon a system of coordinate indexing developed by Dr. Mortimer Taube (see *Am. Documentation* 3:213, 1952),[1] using Unit Terms only and eliminating cross references. The abstracts in FEDERATION PROCEEDINGS, Part I, are serially numbered; the titles in the program (FEDERATION PROCEEDINGS, Part II) bear the same serial numbers. The Unit Terms indexed below are followed by the serial numbers of the abstracts to which they apply.

By this system, the user rather than the indexer determines what Unit Terms he wishes to coordinate. By looking up each of these and determining the serial numbers that are common to all, he can find the abstracts that combine the items he wishes. For example, if the effect of epinephrine on cardiac output as measured by a dye technic is desired, the user should compare the serial number entries listed under *a) cardiac output, b) dye* and *c) epinephrine;* abstract 109 meets the conditions of the question.

The index may be used in the usual way for single item search.

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[1] Due to the short time available for preparation of the index, many compromises in Unit Terms have been necessary, and frequently general rather than specific entries have been used. These faults should not be attributed to this system of coordinate indexing.

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